HITACHI

Color Plasma Display Monitor

Model PW1A

42EDT41

USER'S MANUAL
MANUEL UTILISATEUR
MANUAL DE USUARIO

READ THE INSTRUCTIONS INSIDE CAREFULLY.
KEEP THIS USER'S MANUAL FOR FUTURE REFERENCE.

For future reference, record the serial number of your monitor.

SERIAL NO._____

The serial number is located on the rear of the monitor.

This monitor is ENERGY STAR® compliant when used with a computer equipped with VESA DPMS.
The ENERGY STAR® emblem does not represent EPA endorsement of any product or service.
As an ENERGY STAR® Partner, Hitachi,Ltd. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

ENGLISH

USER'S MANUAL

Thank you very much for purchasing the HITACHI Plasma Display Monitor.
Before using your monitor, please carefully read the "SAFETY INSTRUCTIONS" and this "USER'S MANUAL" so you will know how to operate the monitor properly. Keep this manual in a safe place. You will find it useful in the future.

Notes on Installation Work:
This product is marketed assuming that it is installed by qualifed personnel with enough skill and competence. Always have an installation specialist or your dealer install and set up the product. HITACHI cannot assume liabilities for damage caused by mistake in installation or mounting, misuse, modification or a natural disaster.

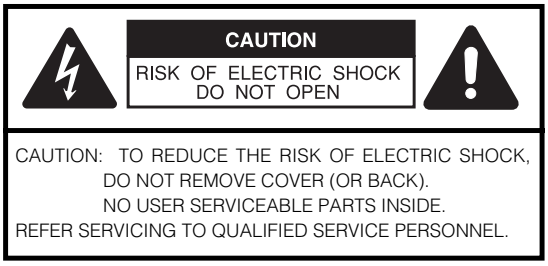
Note for Dealers:
After installation, be sure to deliver this manual to the customer and explain to the customer how to handle the product.

IMPORTANT SAFETY INSTRUCTIONS

SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI PLASMA MONITOR

Our reputation has been built on the quality, performance, and ease of service of HITACHI Plasma monitor.
Safety is also foremost in our minds in the design of these units. To help you operate these products properly, this section illustrates safety tips which will be of benefit to you. Please read it carefully and apply the knowledge you obtain from it to the proper operation of your HITACHI Plasma monitor.
Please fill out your warranty card and mail it to HITACHI. This will enable HITACHI to notify you promptly in the improbable event that a safety problem should be discovered in your product model.

Follow all warnings and instructions marked on this monitor.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of a sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
- TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS MONITOR TO RAIN OR MOISTURE.
- THE MONITOR SHOULD NOT BE EXPOSED TO DRIPPING OR SPLASHING AND NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THE MONITOR.

NOTE:
- There are no user serviceable parts inside the monitor.
- Model and serial numbers are indicated on back side of the monitor.

CAUTION: Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by HITACHI could void the user's authority to operate the monitor.

MODIFICATIONS: The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi America, Ltd. Home Electronics Division may void the user's authority to operate the equipment.

POWER SOURCE

THIS MONITOR IS DESIGNED TO OPERATE ON 120 VOLTS 60Hz, AC CURRENT. INSERT THE POWER CORD INTO A 120 VOLT 60Hz OUTLET.

TO PREVENT ELECTRIC SHOCK, DO NOT USE THE MONITOR'S (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLET UNLESS THE BLADES AND GROUND TERMINAL CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE. NEVER CONNECT THE MONITOR TO DIRECT CURRENT OR ANYTHING OTHER THAN THE SPECIFIED VOLTAGE.

CAUTION: Never remove the back cover of the monitor as this can expose you to very high voltages and other hazards. If the monitor does not operate properly, unplug the monitor and call your authorized dealer or service center.

IMPORTANT SAFETY INSTRUCTIONS

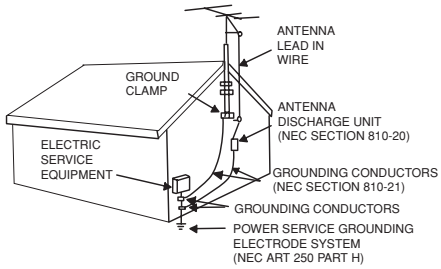
Read before operating equipment

Follow all warnings and instructions marked on this monitor.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use the attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Do not place any objects on the top of the monitor which may fall or cause a child to climb to retrieve the objects.

15. Monitors are designed to comply with the recommended safety standards for tilt and stability.
    Do not apply excessive pulling force to the front, or top, of the cabinet which could cause the product to overturn resulting in product damage and/or personal injury.
16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
17. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
18. If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode.



NEC NATIONAL ELECTRICAL CODE

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Disposal of this product may require specific instructions pertaining to your resident state. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org.

PREVENTION OF SCREEN BURN

Continuous on-screen displays such as video games, stock market quotations, computer generated graphics, and other fixed (non-moving) patterns can cause permanent damage to the monitor. Such “SCREEN BURNS” constitute misuse and are NOT COVERED by your HITACHI Factory Warranty.

PUBLIC VIEWING OF COPYRIGHTED MATERIAL

Public viewing of programs broadcast by TV stations and cable companies, as well as programs from other sources, may require prior authorization from the broadcaster or owner of the video program material.

Important

Please read this User's Manual thoroughly, especially the Important Safety Instructions on Page 2 to 3 and 6 to 10. Mis-use may cause damage to your plasma monitor, which could shorten its lifespan, or cause injury to yourself. Should you encounter any difficulty in the set-up or operation of your monitor, firstly refer to the Troubleshooting guide at the rear of this manual.
In the unlikely event of a problem occurring with your plasma monitor, switch off at the mains sockets, pull out the plugs, and contact your dealer immediately.

CAUTION

Under no circumstances remove the rear cover of your plasma monitor.
Never guess or take any chances with electrical equipment of any kind - it is better to be safe than sorry!

Software Notice

It is prohibited for the end user of this product to copy, reverse engineer or reverse compile the software included therein, save to the extent permitted by law.

Plasma Monitor

After the plasma monitor has been on for any length of time, you will notice that the screen becomes warm. Please note that this is normal. Sometimes the screen might have some tiny bright or dark spots. Please note that this is normal.

CAUTION

To prevent scratches or damages to the plasma screen, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. A mild soap may be used if the screen is extremely dirty. Do not use harsh or abrasive cleaners!

CAUTION

Use a soft cloth to clean the cabinet and control panel of the monitor. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth.
Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks.

FEATURES

Extended definition plasma display panel

The 42-inch color plasma display panel, with a resolution of 852 (H) x 480 (V) pixels, creates a high-definition, large-screen (aspect ratio : 16:9) and low-profile flat display. Free from electromagnetic interferences from geomagnetic sources and ambient power lines, the panel produces high-quality display images free from color misconvergence and display distortion.

High Performance Digital Processor

A wide range of personal computer signals can be handled, from 640 x 400, 640 x 480 VGA to 1600 x 1200 UXGA.(RGB Analog input)

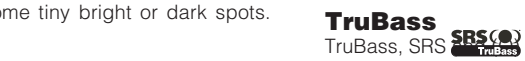
Easy-to-use remote control and on screen display system

The remote control included eases the work of setting display controls. Further, the on-screen display system, displays the status of signal reception and display control settings in an easy-to-view fashion.

Power saving system

The International ENERGY STAR® power saver feature saves power consumption automatically when input signals are not available. When connected to a VESA DPMS-compliant PC, the monitor cuts its power consumption while it is idle.

TruBass

TruBass, SRS  symbol are trademarks of SRS Labs, Inc.
TruBass technology is incorporated under license from SRS Labs, Inc.

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ENGLISH

Notes about This Manual

- The information in this manual is subject to change without notice.
- While meticulous care has been taken in the preparation of this manual, you are requested to notify your dealer or us should you have any comments, views or questions about our product.
- Fully understand the prerequisites to using the product, such as hardware and software specifications and constraints, in using the product. We are not held liable for damages caused by improper handling of the product.
- Reproduction of this manual in whole or in part without our prior written permission is prohibited.
- The product names mentioned in this manual may be trademarks or registered trademarks of their respective owners.

SAFETY INSTRUCTIONS

This Plasma monitor has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.
Before using this product, please read and understand the Safety Instructions thoroughly to ensure correct usage, and follow all the instructions.

About the Symbols

Various symbols are used in this manual, the user's manual and on the product itself to ensure correct usage, to prevent danger to the user and others, and to prevent property damage. The meanings of these symbols are described below. It is important that you read these descriptions thoroughly and fully understand the contents.

⚠ WARNING This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.

⚠ CAUTION This symbol indicates information that, if ignored, could result possibly in personal injury or physical damage due to incorrect handling.

Typical Symbols

This symbol indicates an additional warning (including cautions). An illustration is provided to clarify the contents.

This symbol indicates a prohibited action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that disassembly is prohibited).

This symbol indicates a compulsory action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that the power plug should be disconnected from the power outlet).

⚠ WARNING

Never use the monitor if a problem should occur.

Abnormal operations such as smoke, strange odor, no image, no sound, excessive sound, damaged casing, elements, cables, penetration of liquids or foreign matter, etc. can cause a fire or electrical shock.
In such case, immediately turn off the power switch and then disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact your dealer. Never attempt to make repairs yourself because this could be dangerous.

Disconnect the plug from the power outlet.

Do not insert liquids or foreign objects.

Penetration of liquids or foreign objects could result in fire or electrical shock. Use special caution in households where children are present.
If liquids or foreign objects should enter the projector, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.
- Do not place the monitor in a bathroom.
- Do not expose the monitor to rain or moisture.
- Do not place flower vases, pots, cups, cosmetics, liquids such as water, etc on or around the monitor.
- Do not place metals, combustibles, etc on or around the monitor.

Never disassemble or modify the monitor.

The monitor contains high voltage components. Modification could result in fire or electrical shock.
- Never remove any fixed cover.

Do not disassemble.

Do not give the monitor any shock or impact.

If the monitor should be shocked and/or broken, it could result in an injury, and continued use could result in fire or electrical shock. If the glass panel is broken or damaged, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.

Do not place the monitor on an unstable surface.

If the monitor should be dropped and/or broken, it could result in an injury, and continued use could result in fire or electrical shock.
- Do not place the monitor on an unstable, slant or vibrant surface such as a wobbly or inclined stand.

Do not obstruct the ventilation of the monitor.

If the ventilation is obstructed during the operation of the monitor or just after switching off the power, it could result in damage and shorten the lifespan of your monitor due to overheating. Make sure there is ample ventilation.
- Keep a space of 100mm (10cm) or more between the sides, rear and top of the monitor and other objects such as walls.
- Do not place anything around ventilation openings of the monitor.
- Never block ventilation openings.
- Do not put the plasma screen side up.
- Do not cover the monitor with a tablecloth, etc.
- Do not place the monitor on a carpet or bedding, or near a curtain.

Use only the correct power outlet.

Incorrect power supply could result in fire or electrical shock. Use only the correct power outlet depending on the indication on the monitor and the safety standard.
- The enclosed power cord must be used depending on the power outlet to be used.

SAFETY INSTRUCTIONS(continued)

⚠ WARNING

Be cautious of the power cord connection.

Incorrect connection of the power cord could result in fire or electrical shock.

- Do not touch the power cord with a wet hand.
- Check that the connecting portion of the power cord is clean (with no dust), before using. Use a soft and dry cloth to clean the power plug.
- Insert the power plug into a power outlet firmly. Avoid using a loose, unsound outlet or contact failure.
- Do not cut off the fitted power plug, the removal of which could lead to impaired performance. If you wish to extend the lead, obtain an appropriate extension lead or consult your dealer.
- Should you require replacing the fuse in the molded plug with a new fuse, then please replace with new one of the same value, type and approval as the original. Ensure the fuse cover is returned to its original position.

Be sure to keep safety ground connection.

Connect the ground terminal of AC inlet of this monitor with the ground terminal provided at the power outlet using the enclosed power cord. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

Surely connect the ground wire.

Be careful in handling the power cord and external connection cables.

If you keep using a damaged the power cord or cables, it can cause a fire or electrical shock. Do not apply too much heat, pressure or tension to the power cord and cables.

If the power cord or cables are damaged (exposed or broken core wires, etc.), contact your dealer.

- Do not place the monitor or heavy objects on the power cord and cables. Also, do not place a spread, cover, etc, over them because this could result in the inadvertent placing of heavy objects on the concealed power cord or cables.
- Do not pull the power cord and cables. When connecting and disconnecting the power cord or cables, do it with your hand holding the plug or connector.
- Do not place the cord near the heater.
- Do not touch the power plug just after disconnecting it from the power outlet to prevent electric shock.
- Do not touch the power plug when lightening is close to you.
- Avoid coiling the power cord and bending it sharply.
- Protect the power cord from being walked on, pinched particularly at plugs, conveniences receptacles, and the point where they exit from the apparatus.
- Do not modify the power cord.

Be careful in handling the battery of the remote control.

Incorrect handling of the battery could result in fire or personal injury. The battery may explode if not handled properly.

- Keep the battery away from children and pets. If swallowed consult a physician immediately for emergency treatment.
- Do not allow the battery to be exposed to fire or water.
- Avoid fire or high-temperature environment.
- Do not hold the battery with metallic tweezers.
- Keep the battery in a dark, cool and dry place.
- Do not short circuit the battery.
- Do not recharge, disassemble or solder the battery.
- Do not physically impact the battery.
- Use only the battery specified in the manual of this monitor.
- Make sure the plus and minus terminals are correctly aligned when loading the battery.
- If you observe a leakage of the battery, wipe out the liquid and then replace the battery. If the liquid adheres your body or clothes, rinse well with water.
- Obey the local laws on disposing the battery.

SAFETY INSTRUCTIONS(continued)

⚠ CAUTION

Be careful in moving the monitor.

Neglect could result in an injury or damage.
- Do not move the monitor during use. Before moving, disconnect the power plug and all external connections.
- You are advised to move the monitor with two persons.
- Avoid any impact or shock to the monitor; particularly take care of glass screen.

Do not put anything on top of the monitor.

Placing anything on the monitor could result in loss of balance or falling, and cause an injury or damage. Use special caution in households where children are present.

Avoid a humid or dusty place.

Placing the monitor in a smoke, a highly humid, dusty place, oily soot or corrosive gas could result in fire or electrical shock.
- Do not place near the kitchen, a humidifier or other place where there is oil, smoke or humidity.

Avoid a high temperature environment.

The heat could have adverse influence on the monitor and other parts, and could result in transformation, melting or fire.
- Do not place the monitor, the remote control and other parts in direct sunlight or near a hot object such as heater, etc.
- Do not put the monitor in a place where the temperature is widely changing.

Remove the power cord for complete separation.

- For safety purposes, disconnect the power cord if the monitor is not to be used for prolonged periods of time.
- Before cleaning, turn off and unplug the monitor. Neglect could result in fire or electrical shock.

Disconnect the plug from the power outlet.

PRECAUTIONS

• Installation environment

Do not obstruct a ventilation hole.
Do not put the monitor on carpet or blanket, or near a curtain which has a possibility of obstructing a ventilation hole of the monitor.

Do not put the monitor in the following places.
- Hot places such as near heater, place exposed to the direct rays of the sun.
- A place where the temperature is widely changing.
- Places with soot, dust or high humidity.
- Poor air ventilation place.
- Place near fire.
- A wet place such as bathroom, or shower room.
- Place where you can trip over it.
- Always vibrating or strongly vibrating places.
- Distorted or unstable places.

• How to view the monitor

If you use the monitor in too dark a room, your eyes may become tired.
Please use it in a reasonably bright room.
Avoid direct rays of the sun to the screen in order to prevent eye fatigue.
Your eyes will get fatigued after viewing the monitor for long period of time.
Relax your eyes by viewing away from the monitor from time to time.
Please watch the monitor in downward direction.

• Note on image retention

The plasma monitor illuminates phosphor to display images. The phosphor has a finite illumination life. After extended periods of illumination, the brightness of the phosphor will be degraded to such extent that stationary images would burn-in that part of the screen as grayed-out images.
Tips to prevent such image retention are:
- Do not display images having sharp brightness differences or high-contrast images, such as monochrome characters and graphic patterns, for long.
- Do not leave stationary images appearing for long, but try to refresh them at appropriate intervals of time, or try to move them using screen saver function.
- Turn down the contrast and brightness controls.

• How to clean the plasma screen panel of the monitor

Before cleaning the monitor, turn off the monitor and disconnect the power plug from the power outlet.
To prevent scratching or damaging the plasma screen face, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. If it is not enough, then use a cloth with mild detergent. Do not use harsh or abrasive cleaners.

• How to clean the cabinet of the monitor

Use a soft cloth to clean the cabinet and control panel of the monitor. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth.
Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks.

SAFETY INSTRUCTIONS(continued)

• Prevention of an obstacle to Radio receivers

This monitor has been designed pursuant to the international EMI standards. This is to prevent a problem to Radio receivers.
- Keep the monitor away from Radio.
- Adjust Radio antennas in order for the monitor not to receive interference.
- The antenna cable of Radio should be kept away from the monitor.
- Use a coaxial cable for antenna.

You can check if this monitor influences Radio receivers by turning off all other equipment other than the monitor.
If you find a problem receiving Radio when using the monitor, check the instructions mentioned above.

• Precautions for the cable connection

- Do ensure that all connections, (including the power plug, extension leads and interconnections between the pieces of equipment), are properly made and in accordance with the manufacturers instructions. Switch off and withdraw the power plug before making or changing connections.
- Confirm the connector is fixed tightly when the signal cable is connected. Also confirm the screws on the connector are tightened.
- Plug the power cord of the monitor into a different socket from that for other equipment, such as Radio etc..
- Use a plug with ground terminal and make sure that it connects to the ground.

• Precaution during transportation

Please pay attention when you transport this monitor because it is heavy.
Furthermore, use the original carton box and its packaging materials when the monitor is transported.
Failure to transport the monitor in any carton except the original carton may result in damage to the monitor.
Save the original carton box and all packing material.

Do not physically impact the remote control.

A physical impact could cause damage or malfunction of the remote control.

• Take care not to drop the remote control.
• Do not place heavy objects on the remote control.

Avoid strong rays.

Any strong rays (such as direct sun rays or room lighting) onto the remote control sensors could invalidate the remote control.

Avoid radio interference.

Any interfering radiation could cause distorted images or noises.

• Avoid radio generator such as a mobile telephone, transceiver, etc. around the monitor.

Set the sound volume at a suitable level.

It is better to keep the volume level low and close the windows at night to protect the neighborhood environment.

• Precautions for the installation

- Do not use makeshift stands and NEVER fix legs with wood screws - to ensure complete safety, always fit the manufacturers approved stand or legs with the fixings provided according to the instructions.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- This product is designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet that could cause the product to overturn resulting in product damage and/or personal injury.
- Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
- Only use the attachments/accessories specified by the manufacturer.
- Consult your dealer if you are in any doubt about installation, operation or safety of your equipment.

• Other precautions

- Do not leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch on the equipment and show your family how to do this. Make special arrangements for infirm or handicapped people.
- Disposal of this product may require specific instructions pertaining to your resident region.
- Never guess or take any chances with electrical equipment of any kind - it is better to be safe than sorry!

SAFETY INSTRUCTIONS(continued)

• FCC (Federal Communications Commission) STATEMENT WARNING

For model 42EDT41 ; PW1A

WARNING : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a paricular installation. If this equipment does cause harmful inerference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from where the receive is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Instructions to Users : This equipment complies with the requirements of FCC (Federal Communication Commission) regulations, provided that following conditions are met.

Video inputs : The input signal amplitude must not exceed the specified level.

CAUTION : Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Declaration of Conformity

According to 47CFR, Part 2 and 15 for

Class B Personal Computers and

Peripherals; and / or

CPU Boards and Power Supplies used with Class B Personal Computers:

We: **Hitachi America, Ltd. Home Electronics Division**

Located at: **900 Hitachi Way. Chula Vista, CA 91914, U.S.A.**

Telephone: **1-800-HITACHI**

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR § 2.909. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. The above named party is responsible for ensuring that the equipment complies with the standards of 47CFR § §1 5.101 to 15.109.

Trade name: **Plasma Display Monitor**

Model Number: **42EDT41 ; PW1A**

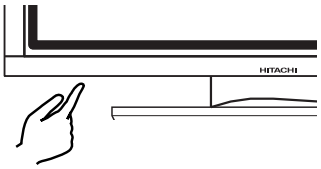
COMPONENT NAMES

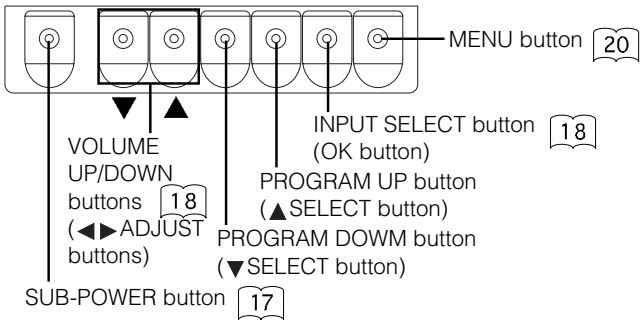
Main Unit

Front

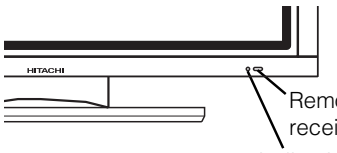
Control panel

- Adjustment buttons are located on the bottom.
- The back cover is provided with indications to distinguish the adjustment buttons.

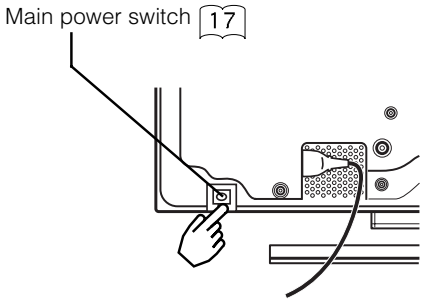



MENU button 20
INPUT SELECT button (OK button) 18
VOLUME UP/DOWN buttons 18 (◀▶ADJUST buttons)
PROGRAM UP button (▲SELECT button)
PROGRAM DOWM button (▼SELECT button)
SUB-POWER button 17

- ( ) indicates the function while the MENU is displayed on the screen.

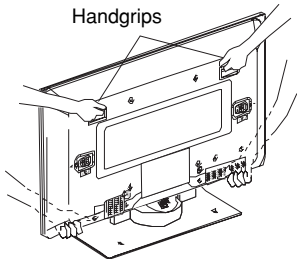


- The main power switch is located at the back, on the lower surface.

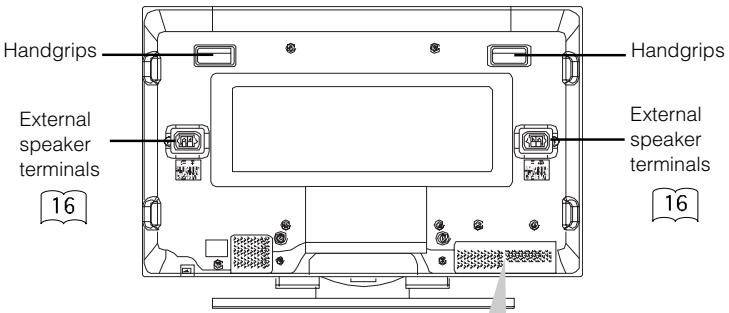


Caution when moving the main unit

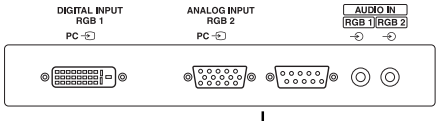
- As this product is heavy, whenever it is moved, two people are required to transport it safely.
- Whenever the unit is moved it should be lifted forwards using the two handgrips at the back, and the unit should then be held at the base on both sides for stability.



Rear



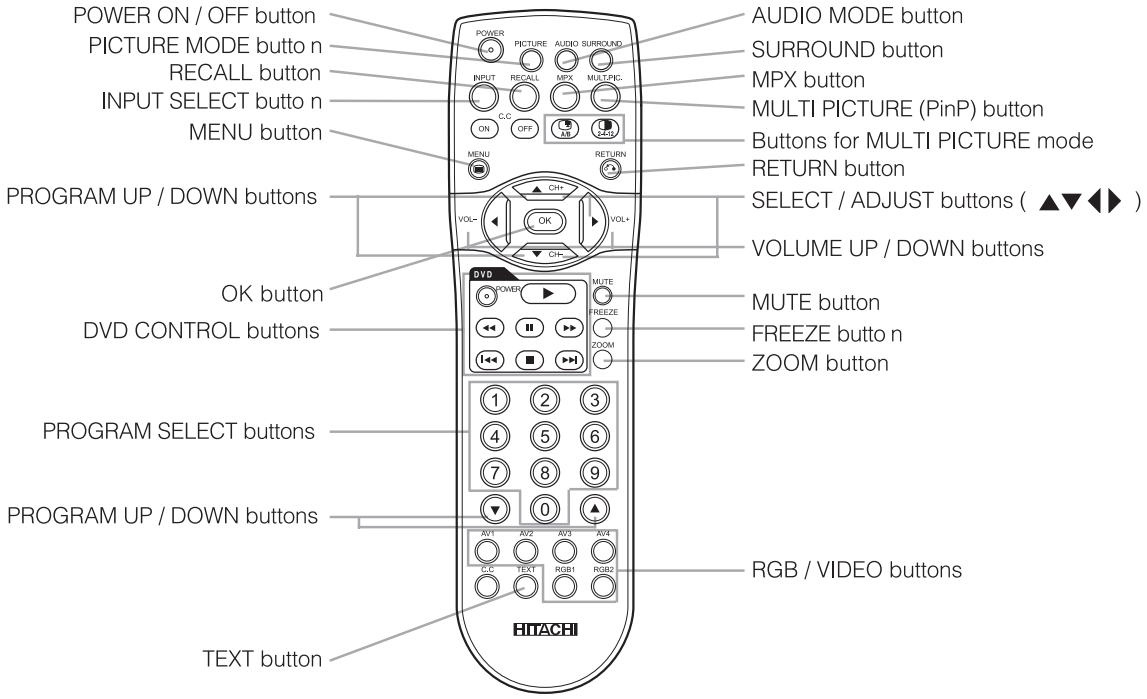
External device connection terminals



RGB input terminals 15

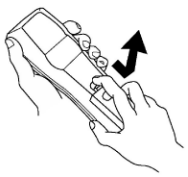
COMPONENT NAMES(continued)

Remote control

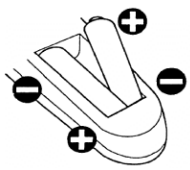


Loading Batteries

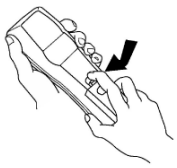
1. Open the battery cover.
- Slide back and remove the battery cover in the direction of the arrow.



2. Load batteries.
- Load two Size AA batteries included observing the correct polarities.



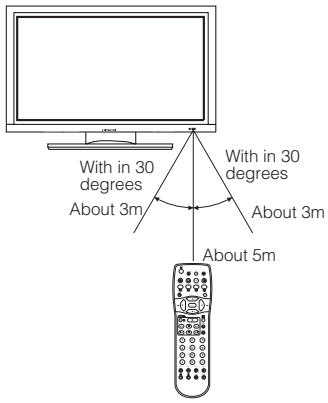
3. Close the battery cover.
- Replace the battery cover in the direction of the arrow and snap it back into place.



⚠ CAUTION
- Do not use new and old batteries together. The batteries could explode or leak, resulting in fires, physical injury, or stains.
- When loading batteries, observe their correct polarities as marked on the product. If loaded in the wrong direction, the batteries could explode or leak, resulting in fires, physical injury, or stains.

Handling the Remote Control

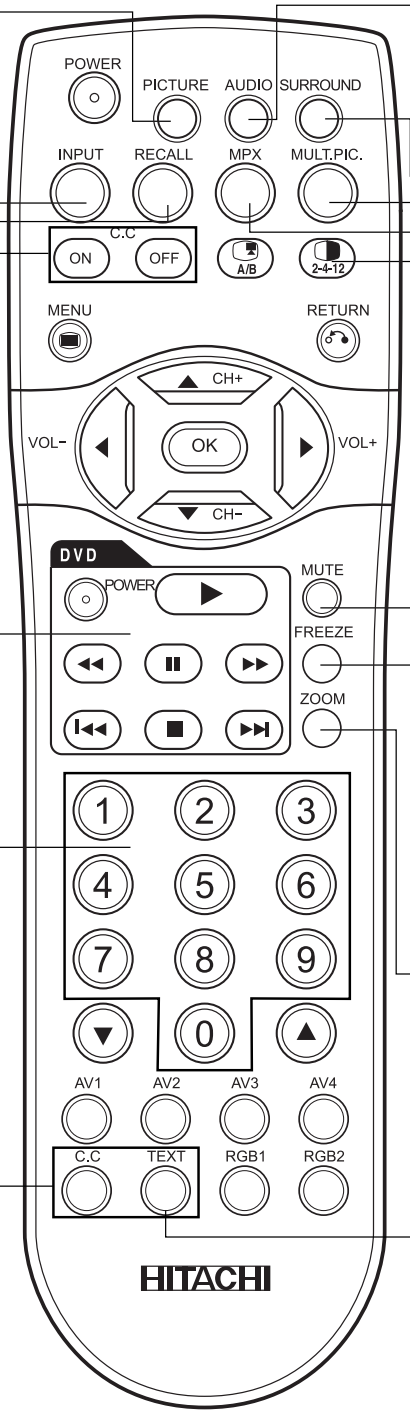
Use the remote control within about 5 m from front of the unit's remote-control sensor and within 30 degrees on both sides.



ATTENTION
- Do not drop or impact the remote control.
- Do not splash the remote control with water or put it on a wet object to avoid possible failures.
- Before leaving the remote control out of use for an extended period of time, remove the batteries from it.
- If the remote control begins to lack responsiveness, replace the batteries.
- Strong light such as direct sunlight impinging on the photoreceptor of the remote control can cause operational failure. Position this unit to avoid direct contact with such light.

COMPONENT NAMES (continued)

Remote control (continued)



PICTURE MODE
You may recall the picture mode by pressing this button. Each time pressed, picture mode is changed in following sequence.

Day → Night

AUDIO MODE
You may recall the sound mode by pressing this button. Each time pressed, sound mode is changed in following sequence.

Movie → Music → Speech → Favorite → Movie

INPUT SELECT
Press this button to change input mode.

MATRIX SURROUND
Press this button to set Matrix Surround On or Off.

RECALL
With this button, the display change between "–","—","-" and AV00 on the top right hand corner of the screen. "--" is for 2 digit channel selection, "---" is for 3 digit channel selection and "-" is for 1 digit channel selection.

MULTI PICTURE
Press this button to change the screen to multi-pictures. Press it again to return to normal picture.

MPX
This button is for Multi-Channel Television Sound only.

C.C [ON & OFF]
These buttons will turn the C.C display on or off.

MULTI MODE
In multi-picture mode, pressing this button will change the multi-picture mode.

DVD CONTROL
You can use these buttons to operate the selected brand of DVD player.

MUTE
Press this button to turn off the set sound. When press again or the ▶ volume up button will restore the sound.

FREEZE
Press this button to change the picture to freeze mode. Press it again to return to normal picture.

PROGRAM SELECT
Press these buttons to select a TV program directly.

ZOOM
Press this button can change Picture size.

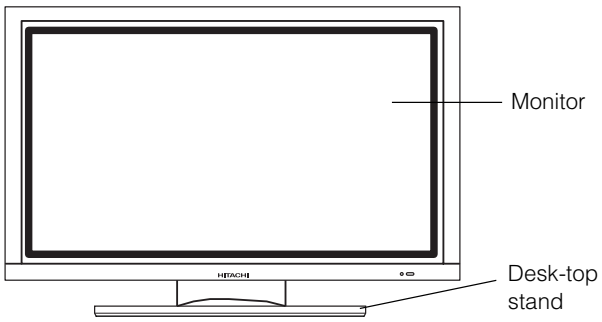
C.C & TEXT
These buttons change Captions Mode between [Captions] and [Text] directly, without using OSD Menu.

TEXT
Pressing this button can indicate the time by On-Screen display when receiving a TV program on the screen.

INSTALLATION INSTRUCTIONS

Installation

• Refer to the installation instructions concerning mounting of the Desk-top Stand.
The instruction manual is included with the Desk-top Stand.
The Desk-top Stand has been used for the illustrations in this manual.

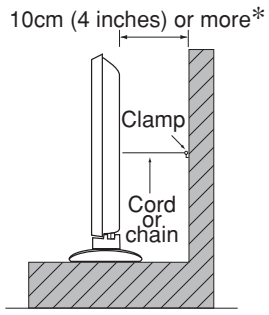


⚠ WARNING

Use one of the special mount units to install this product. A mount of insufficient strength or inadequate design can cause overturning or dropping and result in fire, electrical shock or injury. Please note that our company assumes absolutely no responsibility for personal injuries or property damage caused by use of other mount units or improper installation.

⚠ CAUTION

- Installation of the wall mount unit and ceiling mount unit can be dangerous, so do not attempt this work yourself. Ask your dealer to provide the name of a qualified installer.
- In order to prevent an internal temperature increase, maintain a space of 10cm (4 inches : For a desktop set-up) or more between the sides and other objects such as walls, etc., so that the ventilation holes are not blocked.(*)



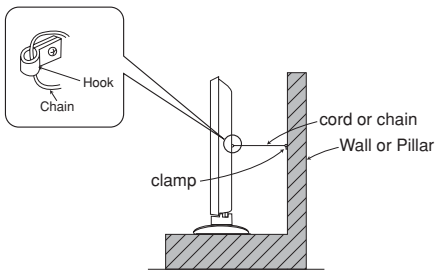
Anti-tumble measures

⚠ CAUTION

Have this unit mounted in a stable place. Take measures to prevent it from tumbling down to avoid possible physical injury.

Securing to a wall or pillar

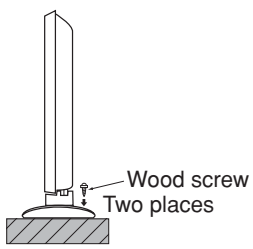
Using a commercially available cord, chain and clamp, secure the set to a firm wall or pillar.



Securing desktop

1) Using wood screws (two), fasten the set to the clamping screw holes on the rear of the stand as shown.

2) Using commercially available wood screws, secure the set firmly in position.



INSTALLATION INSTRUCTIONS (continued)

Read SAFETY INSTRUCTIONS (6 to 10) carefully to ensure maximum safety before proceeding to these steps:

- **Choose an appropriate site and install the product on a level table where the stand is secure.**
  - Install the monitor to have ready access to a power socket available.
- **Make sure that the power switch of this device is turned off.**

Connecting to a PC

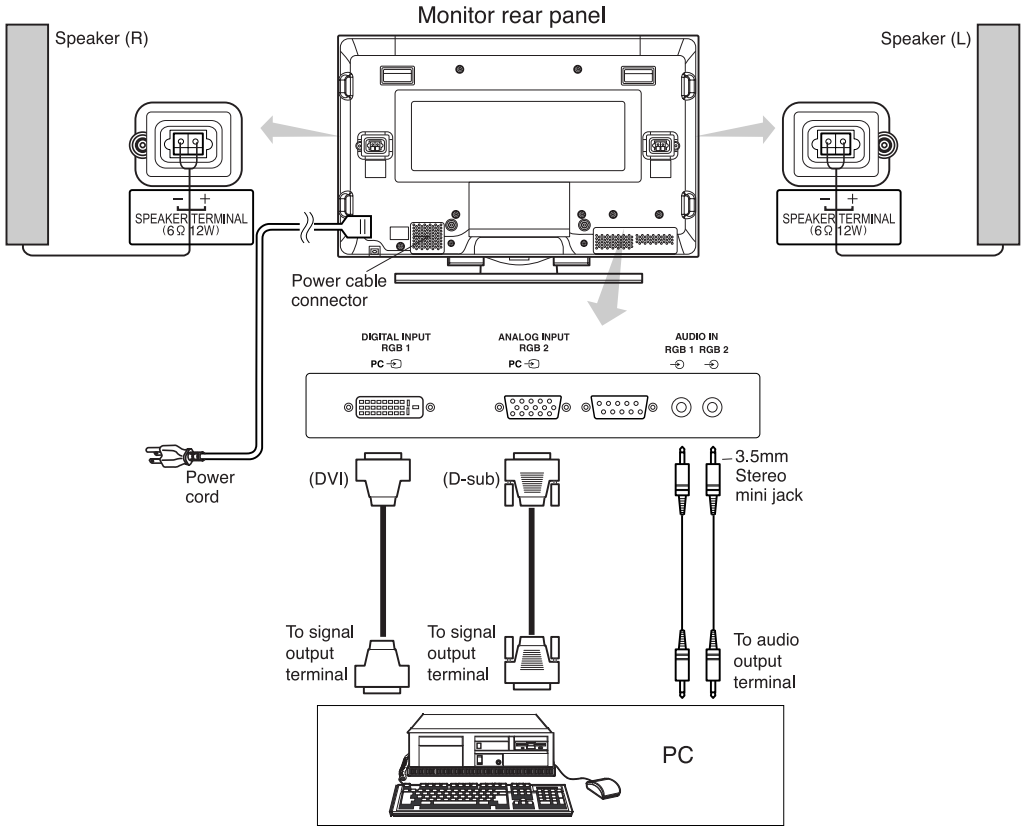
(1) Make sure that the display signal of the personal computer to be used is compatible with the specifications of this device.

- See "Product Specifications" concerning the specifications of this device. 56 ~ 59

(2) Make sure that the power switch of the personal computer is turned off.

(3) Connect the signal input terminal (RGB 1 or RGB 2) on the rear panel of this device to the display signal output terminal of the personal computer.

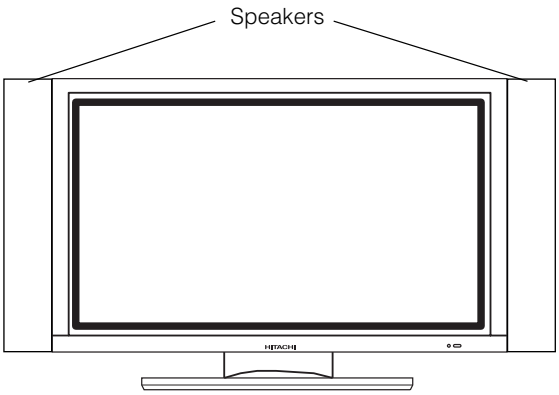
- Use a cable that fits the input terminal of this device and the output terminal of the personal computer.
- Depending on the type of personal computer being connected, the use of an optional conversion adapter or the adapter provided with the personal computer may be necessary in some cases. For details, refer to the instruction manual of the personal computer or ask the personal computer manufacturer or your local retail dealer.



INSTALLATION INSTRUCTIONS (continued)

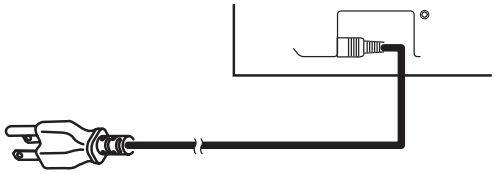
Mounting the Speaker Unit

Refer to the installation instructions concerning mounting of the speaker unit.
The instruction manual is included with the Spaker Unit.



Power Cord Connection

Connect the power cord, after completing all other connections.

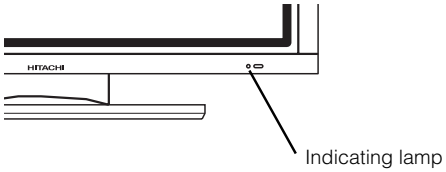


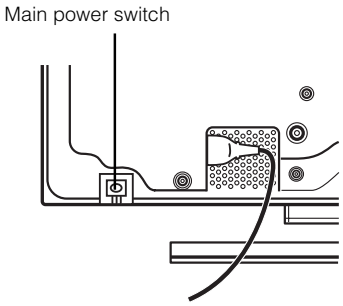
① **Connect the power cord to this device.**

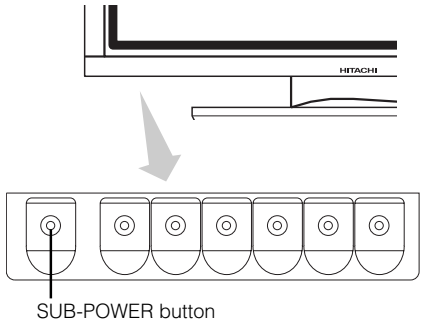
② **Connect the power cord plug to the power outlet.**
(The type of plug is different from this drawing for some countries.)

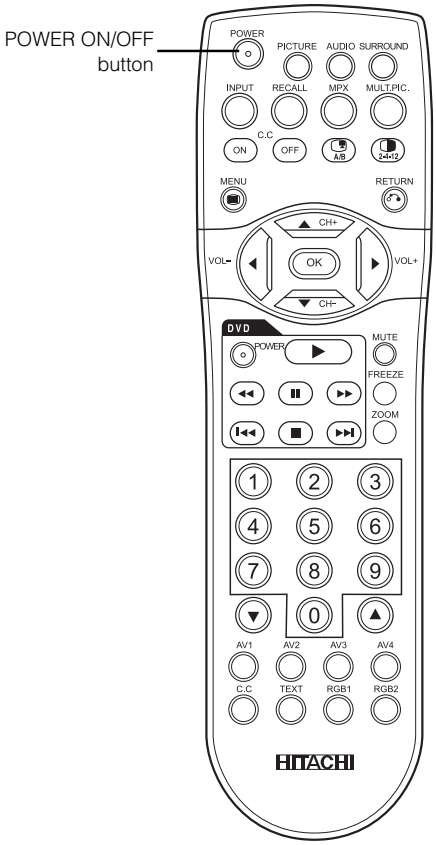
⚠ CAUTION

- Use only the power cord provided.
- Do not use a power supply voltage other than that indicated (AC100-240V, 50/60Hz) as this may cause fire or electric shock.









Turning Power On and Off

- **To turn the monitor power ON, press the main power switch on the monitor main unit to ON, and then press the SUB POWER button or the ON/OFF button on the remote control.**
- **To turn the monitor power OFF, press the SUB POWER button or the ON/OFF button on the remote control, and then press the main power switch on the monitor main unit to OFF.**
  - During normal use, the main power switch is set in the ON position, and the monitor can then be turned ON/OFF using the SUB POWER button or the ON/OFF button on the remote control.

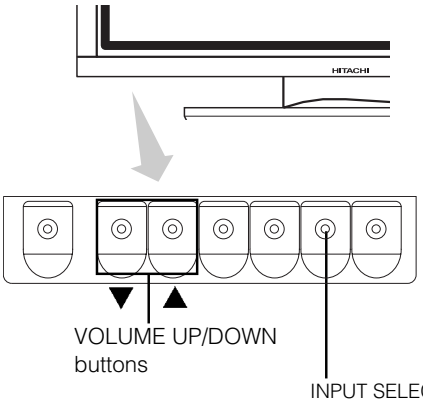
Indicating lamp

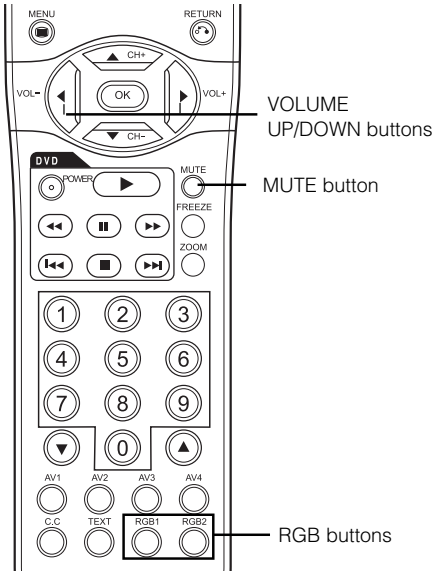
Indicating lamp	Power status	Operating
Off	Off	When the main power switch is set to OFF.
Lights red	Off (standby)	When the main power switch is ON, and the OFF button on the remote control or the SUB POWER button on the underside of the front of the frame is OFF.
Lights green	On	When the main power switch is ON, and the ON button on the remote control or the SUB POWER button on the underside of the front of the frame is ON.
Lights orange	Off (Power Save)	When the main power switch is ON, and the ON button on the remote control or the SUB POWER button on the underside of the front of the frame is ON. However, the state in POWER SAVE mode

When the indicating lamp lights in orange or the message “No Sync. Signal”, “Power Save” or “Invalid Scan Freq.” appears on the screen, there is something unusual about the status of reception.
See “Power Save Mode” or “Symptoms That Seemingly Appear to be Failures.” 26 28

ATTENTION

- Avoid repeatedly turning the monitor on and off at short time intervals. Failures might result from such operation.
- Turn off the main power switch before leaving the monitor out of use for an extended period of time.
- If a power failure occurs while the main unit is running, it would be powered on upon recovery from the failure. Turn off the unit main power switch before leaving the main unit.





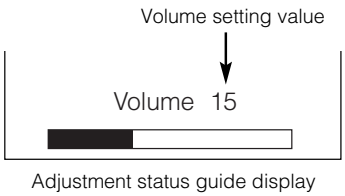
Input Switching

- **Input can be switched by pressing the AV1, AV2, AV3, AV4, RGB1 or RGB2 buttons of the remote control. And the way to return to a TV channel is as follows:**
  - Pressing INPUT SELECT button at RGB2 input screen.
  - Pressing some PROGRAM SELECT buttons and select a TV channel.
  - Pressing PROGRAM UP/DOWN buttons at the screen without OSD(On-screen display).

- **Input can be switched in the sequence of TV → AV1 → AV2 → AV3 → AV4 → RGB1 → RGB2 by pressing the INPUT SELECT button of the monitor or the remote control.**

Volume Adjustment

The volume can be adjusted by pressing the VOL+ and VOL- buttons of the remote control (or the ▲ and ▼ volume buttons of the monitor unit).

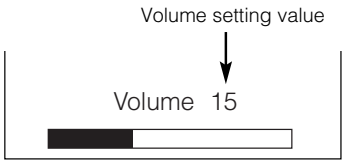


Adjustment status guide display

- **When a button is pressed, the volume adjustment status guide will be displayed.**
  - The volume will increase when the VOL+ (or ▲) button is pressed while the guide is being displayed.
  - The volume will decrease when the VOL- (or ▼) button is pressed while the guide is being displayed.

Audio Mute

The audio volume can be temporarily mute by pressing the MUTE button of the remote control.

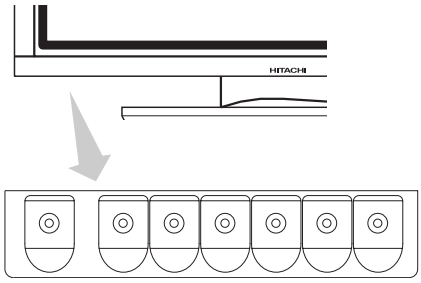


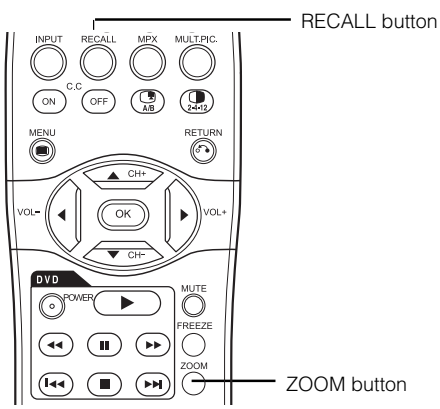
Adjustment status guide display
(The display color will change to magenta.)

- **When a button is pressed, the volume adjustment status guide (magenta) will be displayed.**
  - The volume setting can be lowered by pressing the VOL- button while the audio is mute.
  - The muting can be cancelled by pressing the VOL+ button or MUTE button while the audio is mute.

When the MUTE button of the remote control is pressed again, the audio will be restored and the volume display (green) will appear.

OPERATING INSTRUCTIONS (continued)





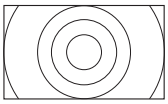
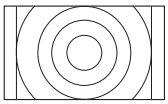
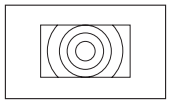
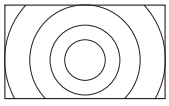
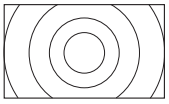
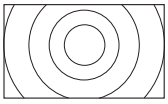
Size Switching

Each time the ZOOM button of the remote control is pressed, the screen display area will change in sequence and the status will be displayed at the bottom of the screen.

Normal → Full → Zoom1 → Zoom2 → Zoom3 → Real*

* Real mode gives the image of the same shape as it is displayed on a computer monitor. This mode is only available for VGA (640 X 480) and WVGA (864 X 480).

Display area selection diagram (RGB input)

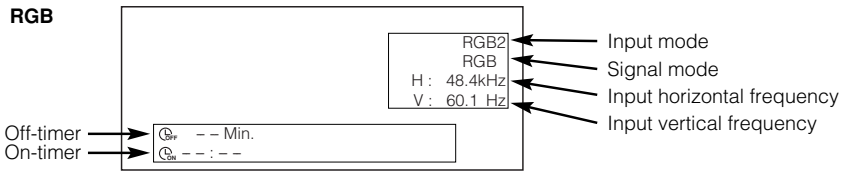
Resolution	Full display	Circular display				
Display	Full	Normal	Real	Zoom1	Zoom2	Zoom3
640 X 480 (VGA)						
800 X 600 (SVGA)						
1024 X 768 (XGA)						
1280 X 1024 (SXGA)						
1600 X 1200 (UXGA)			* VGA and W-VGA only			

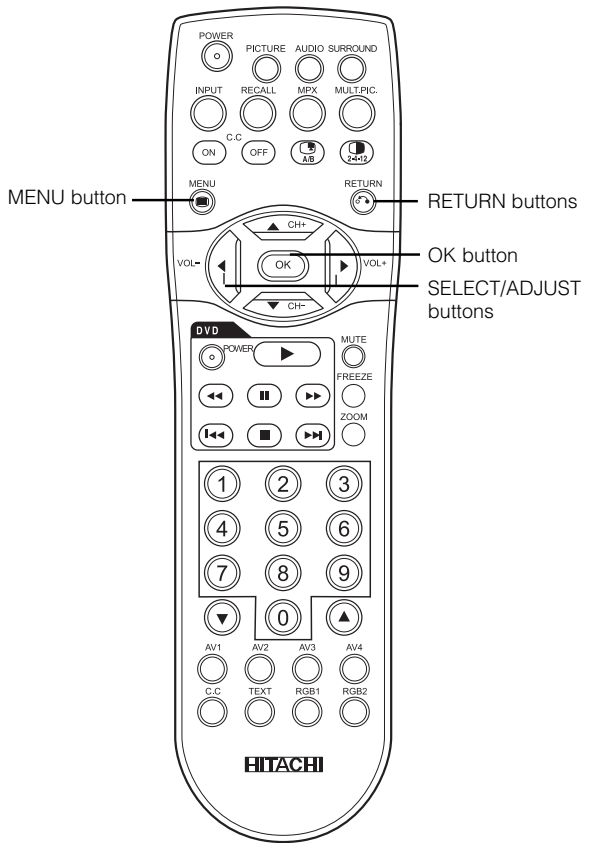
Processes such as compression (thinning) and expansion are performed for the above signal display. Because of this, there is a possibility that flicker may become noticeable on Zoom (1 ~ 3) depending on the display contents. If this occurs, turning the Vertical Filter On 23 can reduce the flicker.

Input Signal Screen Display

The input signal status can be displayed on the screen by pressing the RECALL button of the remote control or the monitor.

• The display will go out in approximately 6 seconds.





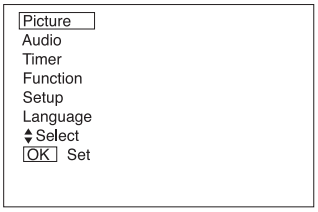
Using the Menu Screen (On-screen display system)

When the MENU button is pressed, the adjustment menu screen will be displayed; from there, PC signal adjustment and setting is possible by using the SELECT button, ADJUST button and OK button.

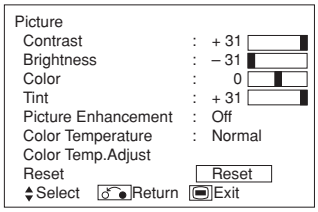
- Refer to 21 - 25 concerning the adjustment items and the settings.

Example: Selecting the Picture screen

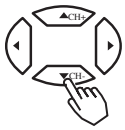
1. Press the MENU button to display the Main Menu screen.

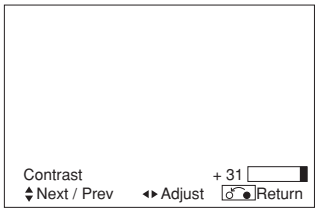


2. Press the OK button to display the Picture Menu screen. (Use the ▲ and ▼ SELECT buttons to select other items.)



3. Use the ▲ and ▼ SELECT buttons to select the item to be adjusted and then use the ◄ and ► ADJUST buttons to adjust (example: Contrast).

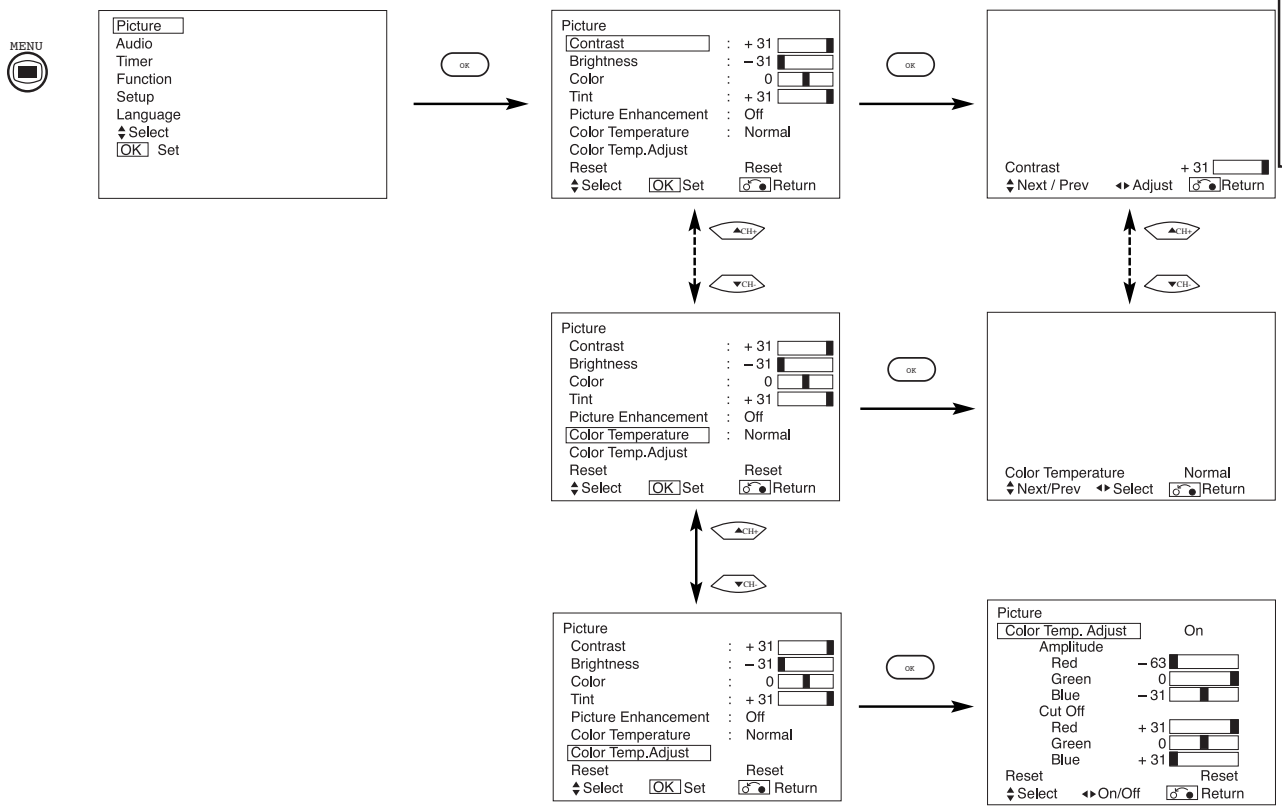




- Press the RETURN button to return to the previous screen.
- If there is no operation for a period of one minute, the Adjustment Menu screen will be closed automatically.

OPERATING INSTRUCTIONS (continued)

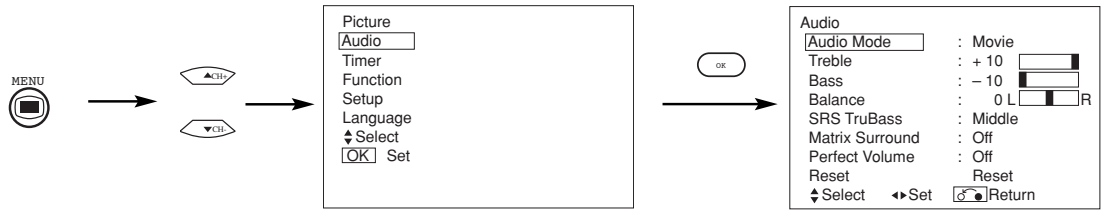
PICTURE MENU



Selected characters		◀	▶	Setup hint
Contrast		Narrows the gap between brightness and darkness.	Broadens the gap between brightness and darkness.	Adjust for maximum visibility to suit the ambient brightness. This can adjust further till [+40] by pressing and holding ▶ cursor button at [+31]. The color for [+32] to [+40] numbers will change from white to magenta. This special mode is better for dark scenes. For brighter scene some parts of the picture might not be clear. We recommend to set at [+31]. "Panel Life" in the Function Menu should be set to Normal when Contrast setting is adjusted.
Brightness		Black is subdued for increased overall darkness.	Black is set off for increased overall brightness.	Adjust to taste.
Color		Darkens colors.	Lightens colors.	Adjust to taste.
Tint		Enhances red and weakens green.	Enhances green and weakens red.	This is not available to adjust when receiving PAL/SECAM signal. In this case the character will be grayed out. Adjust for most realistic skin color.
Picture Enhancement		Off ◀▶ Low ◀▶ Middle ◀▶ High		Sets the clarity of small details to the desired level.
Color Temperature		Cool ◀▶ Normal ◀▶ Warm ◀▶ Black / White		Normally set to Normal.
Color Temp. Adjustment		▶ Off ◀▶ On ◀		Turn On when you wish to change color temperature depending on the user's preference.
Amplitude	Red	Brighter scene is decreased in reddish color.	Brighter scene is increased in reddish color.	Adjust color temperature depending on the user's preference. These settings are independently stored in each of the 4 Color Temperature modes.
	Green	Brighter scene is decreased in greenish color.	Brighter scene is increased in greenish color.	
	Blue	Brighter scene is decreased in bluish color.	Brighter scene is increased in bluish color.	
Cut Off	Red	Dark scene is decreased in reddish color.	Dark scene is increased in reddish color.	
	Green	Dark scene is decreased in greenish color.	Dark scene is increased in greenish color.	
	Blue	Dark scene is decreased in bluish color.	Dark scene is increased in bluish color.	
Reset		(off the function)	(waiting to reset)	The original factory settings for the items of this Menu page can be restored by pressing the OK button.

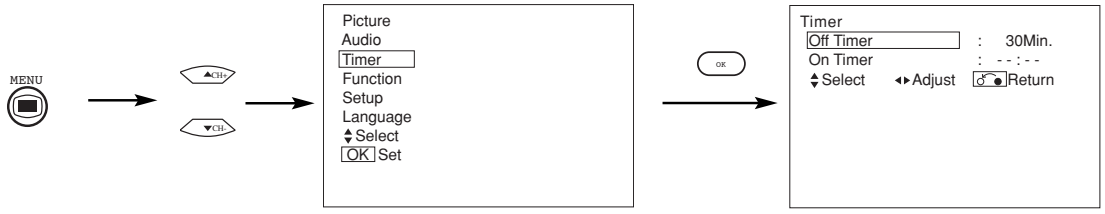
OPERATING INSTRUCTIONS (continued)

AUDIO MENU



Selected characters	◀	▶	Setup hint
Audio Mode	Movie ◀▶ Music ◀▶ Speech ◀▶ Favorite		Movie: This selects the audio suitable for Movie. Music: This selects the audio suitable for Music. Speech: This selects the audio suitable for News, Talk show etc. Favorite: This mode should be adjusted depending on user's preference.
Treble	Suppresses treble.	Enhances treble.	Adjust to taste.
Bass	Suppresses bass.	Enhances bass.	Adjust to taste.
Balance	Suppresses right-side sound.	Suppresses left-side sound.	Adjust to taste.
SRS TruBass	Off ◀▶ Low ◀▶ Middle ◀▶ High		SRS TruBass takes advance of the ability of the human ear to be able to distinguish between two different tones. By using this ability, TruBass gives enhanced bass sound that otherwise would not be heard. Adjust it depending on the user's preference.
Matrix Surround	Off ◀▶ On		This features the spacious sound effects of a stadium.
Perfect Volume	Off ◀▶ On		This will automatically adjust volume so each channel and input has the same average volume level.
Reset	(off the function)	(waiting to reset)	The original factory settings for the items of this Menu page can be restored by pressing the OK button.

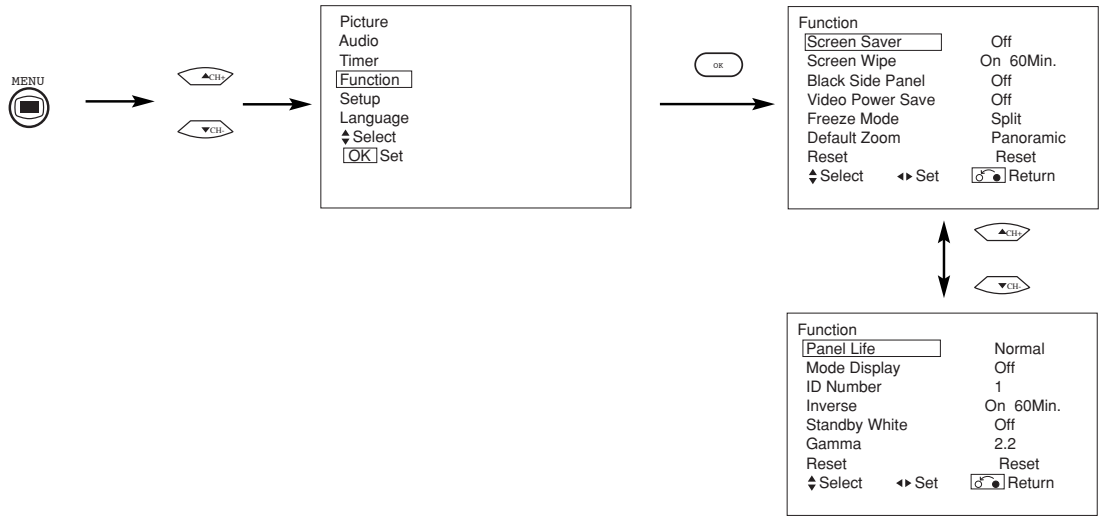
TIMER MENU



Selected characters	◀	▶	Setup hint
Off Timer	--Min. ◀▶ 30Min. ◀▶ 60Min. 120Min. ◀▶ 90Min.		This function automatically sets the power to standby status when the indicated time period has elapsed.
On Timer	- - (: - -) hours	(- - :)- - minutes	This automatically sets the power from standby to ON when the indicated time period has elapsed. The settable time is 00:00~11:59. Input the required time by ▼ ▲ SELECT buttons on the remote control.

OPERATING INSTRUCTIONS (continued)

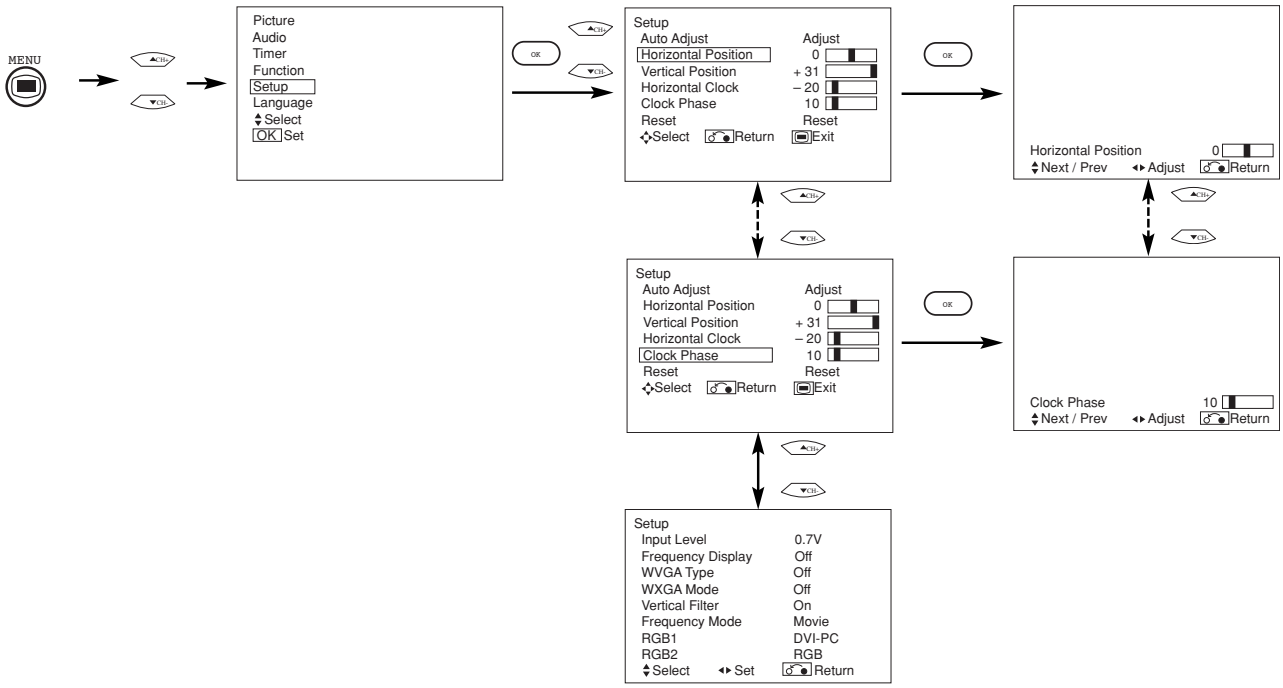
FUNCTION MENU



Selected characters	◀	▶	Setup hint
Screen Saver	Off ⟷ 5Min. ⟷ 10Min. ⟷ 20Min. ⟷ 40Min. ⟷ 60Min.		This moves the picture around the screen in small amounts, at set intervals, to reduce the panel image retention. This is where stationary objects, such as screen logos, leave a slight image visible after they should have disappeared.
Screen Wipe	On	60Min.	This is used to reduce the panel image retention that can occur with stationary pictures by the white field signal. Select On (continuous operation) or 60 Min. (time limit operation) and press the OK button. Press the MENU or RETURN button on the remote control to return to normal viewing.
Black Side Panel	Off ⟷ On		This turns the gray sidebars On/Off when watching normal mode screen size area. It is always set to Off when the monitor powered On. It is recommended to set to Off to reduce the panel image retention.
Video Power Save	Optional (grayed out)		
Freeze Mode	Optional (grayed out)		
Default Zoom	Optional (grayed out)		
Reset	(off the function)	(waiting to reset)	The original factory settings for the items of this Menu page can be restored by pressing the OK button.
Panel Life	Normal ⟷ Extend 1 ⟷ Extend 2		This function is to suppress the contrast of the screen regardless of the Contrast setting in the Picture Menu. By this control, power consumption can be reduced or degradation of a panel can be mitigated. The order of power consumption is Extend 2 < Extend 1 < Normal. If the Contrast setting is changed when this item is set to Extend 1 or 2, it will be changed to Normal automatically.
Mode Display	Off ⟷ On		This can display the Input Signal Screen Display every time the input mode and signal mode are changed. Set to OFF if the Input Signal Screen Display is not needed when switching signals.
ID Number	1 ⟷ 2 ⟷ 3 ⟷ 4 ⟷ 5 ⟷ 6 ⟷ 7		Assigns ID nos. to the monitors so that they can be controlled individually (up to 7 monitors can be controlled).
Inverse	On	60Min.	This function can change each level of RGB signal invert to reduce the panel image retention. When this function is required to use, select On (continuous operation) or 60Min. (time limit operation) and press the OK button. And press the Menu or Return button to exit.
Standby White	Off ⟷ 15Min. ⟷ 30Min. ⟷ 60Min. ⟷ 120Min.		This function is also provided against the image retention. If time is set for this item, the screen changes into the white pattern when the monitor enters power save mode, and it will continue for the period of setting time.
Gamma	2.2 ⟷ 2.8		Normally set to 2.2.

OPERATING INSTRUCTIONS (continued)

SETUP MENU

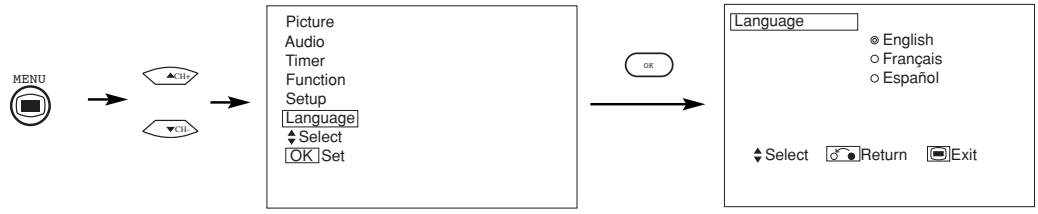


Selected characters	◀	▶	Setup hint
Auto Adjust*	(Menu)	Adjust Pressing the OK button here, Automatic regulation is started.	Horizontal Position, Vertical Position, Horizontal Clock and Clock Phase are adjusted automatically.
Horizontal Position	Moves the horizontal position to left.	Moves the horizontal position to right.	Adjust the left-side display position. (This function is only for RGB2. It's not available (grayed out) for RGB1.)
Vertical Position	Moves down the vertical position.	Moves up the vertical position.	Adjust the vertical display position. (This function is only for RGB2. It's not available (grayed out) for RGB1.)
Horizontal Clock	Reduces the dot clock frequency (shrinks the right side).	Increases the dot clock frequency (expands the right side).	Adjust for maximum character clarity. (This function is only for RGB2. It's not available (grayed out) for RGB1.)
Clock Phase	Slows the dot clock phase (shifts slightly to left).	Advances the dot clock phase (shifts slightly to right).	Adjust for clear character visibility. (This function is only for RGB2. It's not available (grayed out) for RGB1.)
Reset	(off the function)	(waiting to reset)	The original factory settings for the items of this Menu page can be restored by pressing the OK button. (This is effective only for RGB2.)
Input Level	0.7V ⟷ 1.0V		Normally set to 0.7 V. If white is found to spread across the screen, set to 1.0 V. (This is effective only for RGB2.)
Frequency Display	Off ⟷ On		Set this to Off if the frequency information of the Input Signal Screen Display is not required.
WVGA Type	Off ⟷ On		This is only available for W-VGA signal When it is set to On, the display area mode can be selected Full or Real.
WXGA Mode	Off ⟷ 1280x768 ⟷ 1366x768		This is only available for (PC) WXGA signal. The display area mode is selected [1280x768] or [1366x768].
Vertical Filter	Off ⟷ On		Turn On when concerned about screen flicker.
Frequency Mode	Movie ⟷ PC		Set to Movie when viewing moving images on a personal computer.
RGB1	DVI-PC ⟷ DVI-STB		This should correspond to the signal mode of the signal from the equipment that is connected to RGB1 DVI terminal.
RGB2 (1st step)	RGB ⟷ Component		This should correspond to the signal mode of the signal from the equipment that is connected to RGB2 D-sub terminal
RGB2 (2nd step)	Auto ⟷ HDTV ⟷ SDTV/DVD		This step should be set only when [Component] is selected on the 1st step. This should correspond to the signal mode of the signal from the equipment that is connected to RGB2 D-sub terminal • Normally, set this to Auto. The signal mode of the input signal will be automatically recognized. • If the input signal contains much noise or has a low level at Auto and the operation is found erratic, set this to match the input signal

* Depending on the type of signal displayed, displays may not be optimized through automatic adjustment. Adjust manually to optimize them.

OPERATING INSTRUCTIONS (continued)

LANGUAGE MENU



Select a language by ▼▲ SELECT buttons and press the OK button.

OTHER FEATURES

Automatic Store

Approximately 1 sec. after adjustment is completed, the adjustments will be recorded as shown in the table below.

Menu	Display	Registration condition
Picture	Contrast	For every input function, 1 setting is registered.
	Brightness	
	Color	
	Tint	
	Picture Enhancement	
	Color temperature	
	Color Temp. Adjust	
	R Amplitude	For every Color Temperature, 1 setting is registered.
	G Amplitude	
	B Amplitude	
	R Cut Off	
	G Cut Off	
	B Cut Off	
Audio	Audio Mode	1 setting is registered.
	Treble	For every Audio Mode, 1 setting is registered.
	Bass	
	Balance	1 setting is registered.
	SRS TruBass	For every Audio Mode, 1 setting is registered.
	Matrix Surround	
	Perfect Volume	

Menu	Display	Registration condition
Function	Screen Saver	1 setting is registered.
	Screen Wipe	(not registered)
	Black Side Panel	(not registered)
	Panel Life	1 setting is registered.
	Mode Display	
	ID Number	
	Inverse	
	Standby White	
	Gamma	
Setup	Auto Adjust	(not registered)
	Horizontal Position	For every signal Mode, 1 setting is registered. (Only for RGB2)
	Vertical Position	
	Horizontal Clock	
	Clock Phase	
	Input Level	1 setting is registered.
	Frequency Display	
	WVGA Type	
	WXGA Mode	
	Vertical Filter	
	Frequency Mode	
Language		1 setting is registered.

- The previously recorded items will be lost.
- The signal mode can be identified by the horizontal/vertical sync frequency and the sync signal polarity. Different signals with which all the elements are the same or similar will be handled as the same signal.

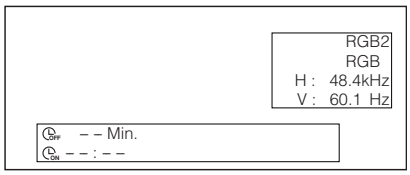
OTHER FEATURES (continued)

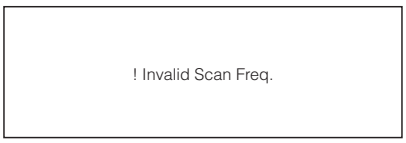
Signal Check

Changes in the signal status are displayed on the screen as they arise.

Status	Display	Action
When Mode Display is set to ON, the input signal is switched or when the RECALL button is pressed.	A guide is displayed for the input terminal and the horizontal and vertical sync frequency.	———
When the sync signal is no longer detected.	• A guide displays No Sync. Signal, and Power Save (for approx. 5 sec.) • When the condition continues where the sync signal cannot be detected, indicator lamp of power source changes in orange and the mode switches to power save mode.	Recheck the personal computer power switch status and the connection status.
When the input signal does not match the monitor specifications or is in an unstable status.	A guide displays Invalid Scan Freq.	Recheck the input signal specifications. 58 ~ 59

RGB





Power Save Mode

When the RGB1, RGB2 input is selected

• When this unit is connected to a VESA DPMS computer, the Power Save (Off) mode can be set to be activated automatically when the computer is not being used to reduce power consumption by this unit.

RGB sync signal	Horizontal	Yes	No	Yes	No
	Vertical	Yes	Yes	No	No
PC signal		Active (normal display)	Blank (no display)		
Operation mode		On	Off		
Indicating lamp		Lights green	Lights orange		
Power consumption		310W	3W or less (RGB1) 1W or less (RGB2 ; 100V≦AC≦120V) 3W or less (RGB2 ; 120V<AC≦240V)		

Returning to operating status

• Operate the personal computer, or press either the INPUT SELECT button of the main unit or the RGB1/RGB2 buttons of the remote control.

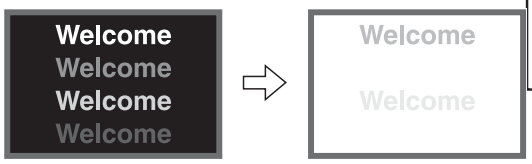
IMAGE RETENTION OF PLASMA DISPLAY

There are different characteristics that result in panel image retention depending on how the plasma display is used. Situations and effective usage methods related to ghosting are provided below.

Image retention characteristics of a plasma display

The image retention phenomenon of a plasma panel occurs due to partial phosphor degradation arising from partial character and figure display.

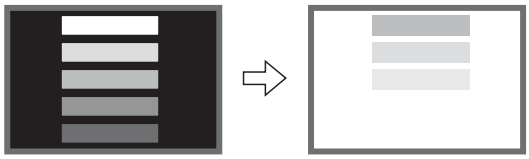
For example, when the character image as shown in Fig. A at the right is continuously displayed for a long period of time, the only part of the phosphor (Red,Green, Blue) that will degrade will be the color of the applicable character display portion. Consequently, when a white image is displayed on the entire screen as shown in Fig. a, the character marks displayed up to that time will become a color difference visible to the eye, but the phosphor will never burn.



【Fig. A】 【Fig. a】

■The degree of image retention is proportional to the brightness of the characters and figures displayed as well as the display time.

- The tendency of the phosphor is to degrade more the brighter the characters and figures are displayed. When images of figures with different levels of brightness, as shown in Fig. B, are continuously displayed for a long period of time, it becomes easier for image marks at locations when the brighter figures are displayed to be noticeable.



【Fig. B】 【Fig. b】

* The image retention images in this document are exaggerated for the purpose of explanation. The actual manner in which the image retention is seen differs depending on the operation time and brightness.

Methods to Reduce the Occurrence of Image Retention

- Lower the Contrast and Brightness settings of the plasma display as much as possible.
  A function is provided in the display that controls the brightness of the screen to reduce degradation of the panel. Using this function makes it possible to reduce image retention.
  (Refer to Panel Life (Extend 1.or Extend 2 shown on 23)

- Set the plasma monitor to an “Screen Wipe” or “Inverse” display.
  The occurrence of image retention when displaying images of identical patterns, such as static images, for long periods of time can be reduced by displaying a reversed color or completely white screen for about 1 ~ 2 hours after terminating the display.
  (Settings can be made using Screen Wipe and Inverse of Function MENU shown on 23)

- Using in combination with moving images
  Since the degradation of the fluorescent material progresses comparatively uniform for moving images, the occurrence of partial image retention can be controlled. We recommend to use in combination with moving images such as a DVD.
  * Please be careful since image retention will occur if display is left in a two screen display state for a long period of time.
  * Television broadcasts include images displayed for long periods of time in which the left and right or top and bottom of the image are cut and broadcast station name or time are displayed for a long period of time at the same portion of the screen. Image retention in these portions can be expected to occur, so please be aware.

NOTES

About screen defects

- High precision technology is used in the making of plasma panels but there may be dark spots (points that do not illuminate) and bright spots (points that are too bright) in some cases. These do not indicate a malfunction.

About residual images

- In some cases, residual images may remain after the short-term display of still images and another image is displayed, but these will disappear and return to normalcy. This is not a malfunction.

About the panel screen

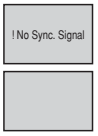
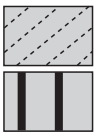
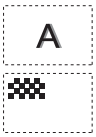
- Plasma displays display images by means of electrical discharges inside the panel. Because of this, the temperature of the panel surface may rise in some cases.Also, plasma displays are made of finely processed glass. A reinforced glass filter is installed over the panel surface but avoid strong impact because there is still danger of glass breakage.

TROUBLESHOOTING

Symptoms That Seemingly Appear to be Failures

Make the checks suggested below depending on the symptoms observed. If the symptoms remain uncorrected, contact your dealer.

> ⚠ WARNING
> Customer servicing can be hazardous.

Symptom		Point to check	See page
• No picture with the power-indicating lamp off.		• Check the way the power cable is connected. • Press the power switch.	16 17
• The message “No Sync. Signal” or “Power Save” is displayed. • No picture with the power indicating lamp lights in orange.		No sync signal is detected. • Check the way the signal cable is connected. • Make sure that the switch of the computer, imaging equipment , etc., is turned on. • Make sure the computer is not in the power-save mode. • Check to see if the input selection matches the connection terminal.	15
• The message “Invalid Scan Freq.” is displayed.		An input signal is not received normally. • Check to see if the input signal matches the monitor specifications. • Check the way the signal cable is connected.	15 58 59
• The power indicating lamp is normally lit but no picture .		• Check the contrast and brightness settings (adjust them for higher contrast and brightness). • Check the way the signal cable is connected.	15 21
• The display image appears flowing slantwise. • Text displayed across the screen appears vertically streaked, with the characters in vertical columns blurred.		• Adjust the dot clock frequency and phase. (Adjust the dot clock frequency first, the dot clock phase next.) (RGB input)	24 30
• Text displayed across the screen appears blurred. • A fine pattern flickers when displayed on the screen.		• Adjust the dot clock phase for the clearest viewing. (RGB input)	24 30
• The remote control does not work.		• Check to see if the batteries are loaded in the remote control in opposite direction. • Check to see if the batteries in the remote control are OK.	12

TROUBLESHOOTING (continued)

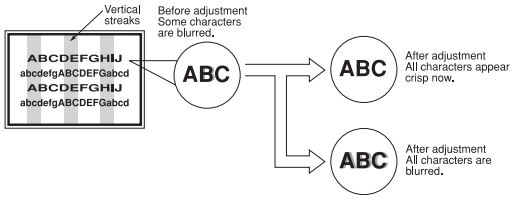
Symptoms That Seemingly Appear to be Failures (continued)

Symptom	Point to check	See page
• The temperature of the display panel surface is high.	• The plasma display panel is lighting the phosphors by the discharge of internal radiation. In some cases, this may cause the temperature of the panel surface to increase. Please note that this is not a malfunction.	-
• There are locations on the screen that are different from the periphery (*). *Points that do not light, points with brightness different from that of the periphery, points with color different from that of the periphery, etc.	• High-precision technology is used to manufacture the plasma display panel, However in some cases, there are minor defects in some parts of the screen. Please note that this is not a malfunction.	-
• Vertical stripes appear, depending on the screen contents.	• The plasma display panel is lighting the phosphors by the discharge of internal radiation. Depending on the screen contents, in rare cases this may cause vertical stripes to appear because of failure to light. Please note that this is not a malfunction.	-
• Coarse horizontal stripes appear in FULL display.	• Adjusting the Clock Phase will reduce the horizontal stripes. (RGB input)	24
• Flickering in the form of horizontal lines oscillating up and down. (PC INPUT MODE only)	• If the direct frequency from the computer is below 85Hz, try a higher frequency (upper limit 85Hz). There may be a slight attenuation of the current image. • Try turning the Vertical Filter On. For this case however, the vertical resolution will drop.	24
• The fan motor is noisy. (Fan application model only)	• Use the fan that controls the temperature in the main body to lower the temperature of this unit. If the ambient air temperature increases, the fan will start, the RPMs will increase and motor noise will grow louder. This is not a malfunction though.	-
• The top of the monitor heats up.	• When used for long periods of time, the top of the monitor may heat up. This is not a malfunction.	-
• Text characters are displayed with varying thicknesses.	• The thicknesses of characters and lines may vary if images with a vertical resolution greater than 480 lines are displayed; however, this is not a malfunction.	-
• The brightness contrast in the display seems not bright enough.	• The ambient temperature of the monitor may be low. When used in the ambient temperature less than about 15 degrees, it may cause lower luminance. It happens in an operation of the panel protect circuit, and this is not a malfunction. The luminance will recover by turning on electricity for a while.	-
• The brightness contrast in the display seems not bright enough. (RGB input)	• Setup-Frequency in RGB input may be set as PC mode. When set as PC mode, the luminance becomes lower about 10% than it is set as Movie mode. This is not a malfunction though. If you do not mind flickering on the display, please use in Movie mode.	24

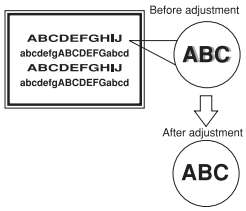
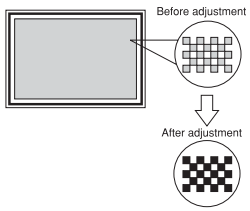
TROUBLESHOOTING (continued)

Actions to Correct Abnormal Displays

Depending on the kind of system equipment used, images may not be displayed normally. In this case, make the adjustments suggested below. (only for RGB2)

<table>
<tr><td>Symptom 1</td><td>Text displayed across the screen appears vertically streaked, with some characters blurred (figure 1).
The display image appears flowing (figure 2) (RGB input).</td></tr>
<tr><td>Example</td><td>Figure 1
 
</td></tr>
<tr><td rowspan="2">Adjustment procedure</td><td>1) Press the MENU button. The Main Menu will be displayed.
2) Press the ▼ SELECT button and Select Setup.
3) Press the OK button. The Setup Menu will be displayed.
4) Press the ▼ SELECT button and select Auto Adjust.</td></tr>
<tr><td>When adjustment is not possible with Auto Adjust
5) Press the MENU button. The Main Menu will be displayed.
6) Press the ▼ SELECT button and select Setup.
7) Press the OK button. The Setup Menu will be displayed.
8) Press the ▼ SELECT button and select Horizontal Clock.
(Display fine patterns as characters or a vertical striped pattern over the entire screen during Horizontal Clock adjustment.)
9) Press the ▶ or ◀ ADJUST buttons and search for clear characters over the entire screen.
10) Perform adjustment for symptom 2 below, when the characters are blurred on the entire screen.</td></tr>
</table>

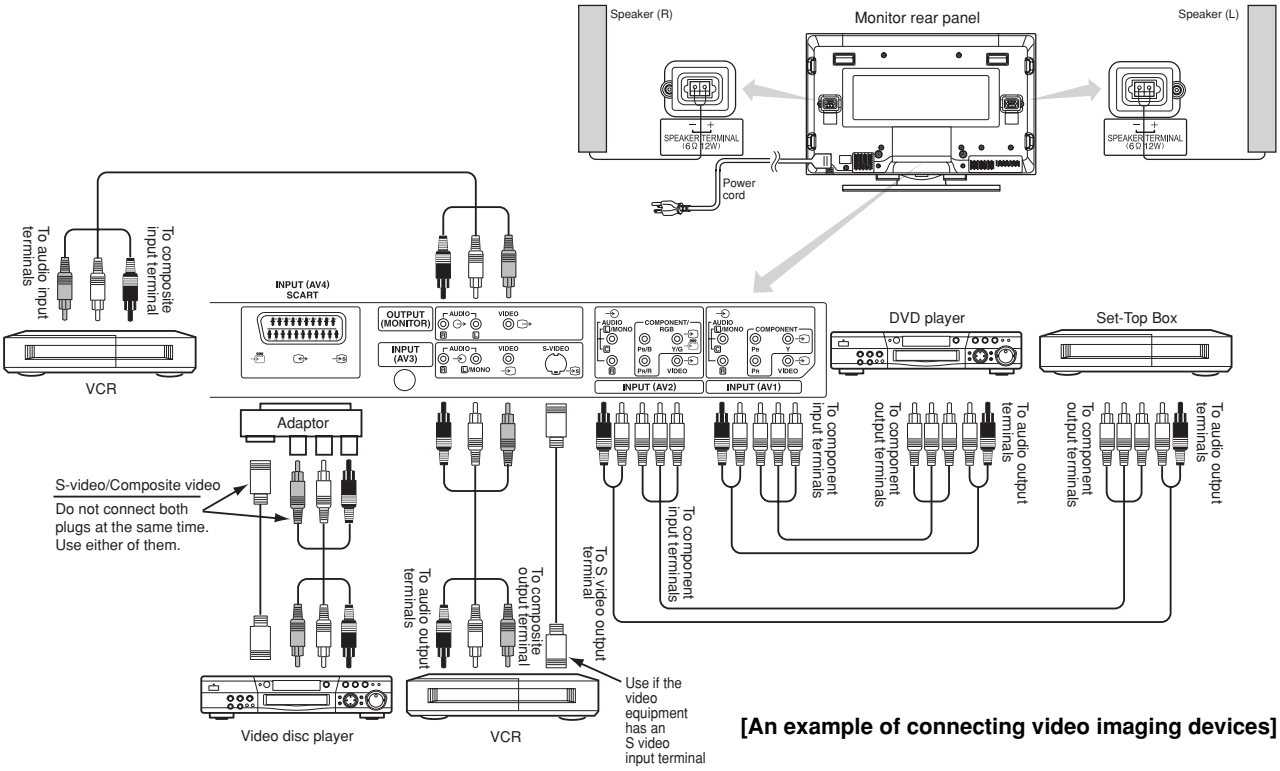
• The display image may be momentarily disturbed during clock adjustment but this is not a failure.

<table>
<tr><td>Symptom 2</td><td colspan="2">Text displayed across the screen appears blurred in its entirety (figure 2).
A fine pattern flickers when displayed on the screen (figure 3).</td></tr>
<tr><td>Example</td><td>Figure 2
 
</td><td>Figure 3
 
</td></tr>
<tr><td rowspan="3">Adjustment procedure</td><td colspan="2">1) Press the MENU button. The Main Menu will be displayed.
2) Press the ▼ SELECT button and Select Setup.
3) Press the OK button. The Setup Menu will be displayed.
4) Press the ▼ SELECT button and select Auto Adjust.</td></tr>
<tr><td colspan="2">When adjustment is not possible with Auto Adjust
5) Press the MENU button. The Main Menu will be displayed.
6) Press the ▼ SELECT button and select Setup.
7) Press the OK button. The Setup Menu will be displayed.
8) Press the ▼ SELECT button and select Clock Phase.
(Display fine patterns as characters or a vertical striped pattern over the entire screen during Clock Phase adjustment.)</td></tr>
<tr><td>9) Press ▶ or ◀ ADJUST buttons to make the text appear clean across the screen.</td><td>9) Press ▶ or ◀ ADJUST buttons to make the text appear without flickering.</td></tr>
</table>

INSTALLATION INSTRUCTIONS

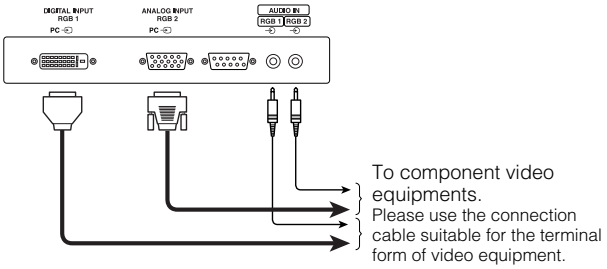
Connecting to a Video Imaging Device

(1) Make sure that the power switch of the monitor is turned off.
(2) Make sure that the power switch of the imaging device is turned off.
(3) Use a commercially available cable and connector to connect the signal input terminal on the rear panel of this device and the signal output terminal of the imaging device.



[An example of connecting video imaging devices]

With DVI-STB and RGB component setup


DIGITAL INPUT RGB 1
ANALOG INPUT RGB 2
AUDIO IN RGB 1 RGB 2
To component video equipments.
Please use the connection cable suitable for the terminal form of video equipment.

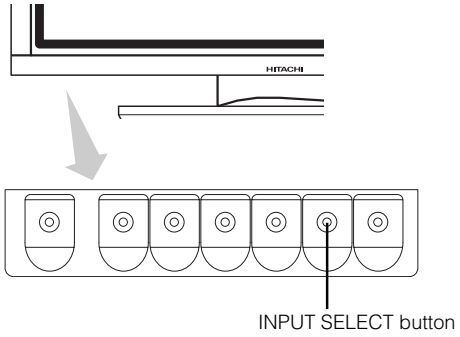
- If video equipment with an S video output terminal is used, cabling by the S video cable is recommended to provide finer video quality. (If the S video input terminal and the video input terminal of AV3 connect to the monitor at the same time, S video input would govern.)
- If the OUTPUT (MONITOR) terminal is connected to an external monitor with a 75 Ohm terminal, it is possible to view the same image as on the main unit. But it is possible to monitor only the composite video signal from AV1, AV2, AV3 or AV4 input that is displayed on the screen at the time.
- If the adaptor is applied to AV4 input as shown in the drawing, it is impossible to receive RGB signal.

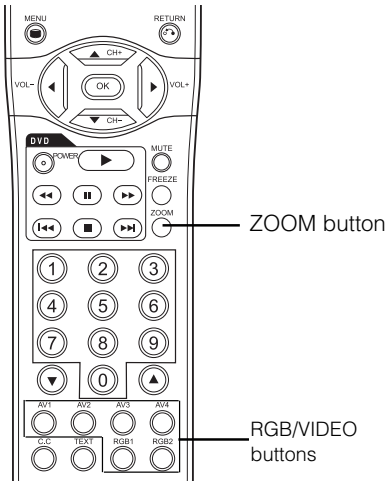
Applicable video signals for each input terminal (See PRODUCT SPECIFICATIONS for details. 56)

Terminal	RCA/SCART				DVI		D-sub		Remarks
Signal	CVBS	S-video	Component	RGB	PC	STB	RGB	Component	
AV1	○		○						
AV2	○		○	○					Refer to Setup Menu. 38
AV3	○	○							
AV4	○	○		○					Refer to Setup Menu. 38
RGB1					○	○			Refer to Setup Menu. 39
RGB2							○	○	Refer to Setup Menu. 39

(○ : Available)

OPERATING INSTRUCTIONS





Input Switching

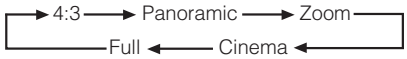
- **Input can be switched by pressing the AV1, AV2, AV3, AV4, RGB1 or RGB2 buttons of the remote control. And the way to return to a TV channel is as follows:**
  - Pressing INPUT SELECT button at RGB2 input screen.
  - Pressing some PROGRAM SELECT buttons and select a TV channel.
  - Pressing PROGRAM UP/DOWN buttons at the screen without OSD(On-screen display).

- **Input can be switched in the sequence of TV → AV1 → AV2 → AV3 → AV4 → RGB1 → RGB2 by pressing the INPUT SELECT button of the monitor or the remote control.**

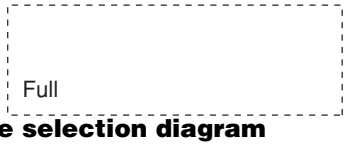
Size Switching

Each time the ZOOM button of the remote control is pressed, the screen display size will change in sequence and the status will be displayed at the bottom of the screen.

- **During VIDEO signal input (AV1, AV2, AV3, AV4, RGB1 (set to [DVI-STB]) and RGB2 (set to [Component]))**



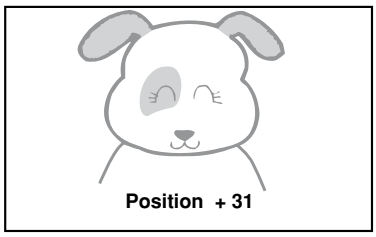
- The size will fix as Full mode and not change when receiving the component signal of 1080i/50, 1080i/60 or 720p/60.



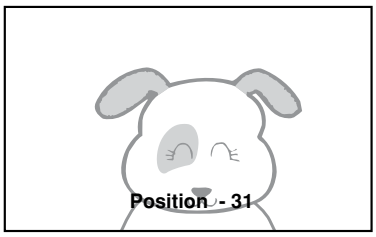
Display size selection diagram

When you want to	Set the display size	Input signal	Display screen	Remarks
Play a 4:3 image in a 16:9 screen faithfully.	4 : 3	(4:3 signal)		Blanking occurs on both sides.
Play a 4:3 image in a 16:9 screen with the height and width of the middle of the screen enlarged on equal scales and with both sides appearing somewhat enlarged.	Panoramic			
Play a 16:9 VISTA size image in the 4:3 image faithfully reproduced on the 16:9 screen.	Zoom	(Vista)		• The 4:3 image is called a letterbox image. • In some cases, some slight blanking may remain at the top and bottom.
Play a 21:9 Cinema size image in the 4:3 image expanded vertically on the 16:9 screen.	Cinema	(Cinema)		In some cases, some slight blanking may remain at the top and bottom.
Play a 4:3 image faithfully in a 16:9 screen in the standard vertical size and horizontally squeezed.*	Full	(Squeeze)		* An image with an aspect ratio of 16:9 shrunk horizontally to 4:3 to display in a 4:3 screen

Vertical picture position can be adjusted for [Panoramic], [Zoom] and [Cinema] mode as follows.
1. Press ZOOM button and ▲ ▼ SELECT buttons during picture size display.
2. Position display will appear.
3. Adjustment range of each picture size are as shown below.
   [Panoramic] - 12 to + 12
   [Zoom] and [Cinema] - 31 to + 31
4. When 1080i/50 or 1080i/60 component signal is received, vertical position can be adjusted only one step up. (The range: 0 to +1)



Press ▲

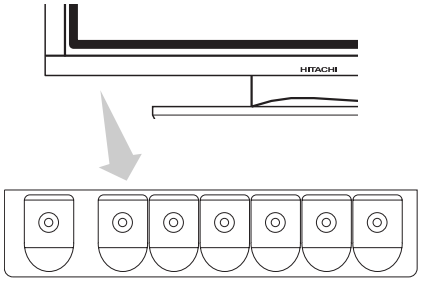


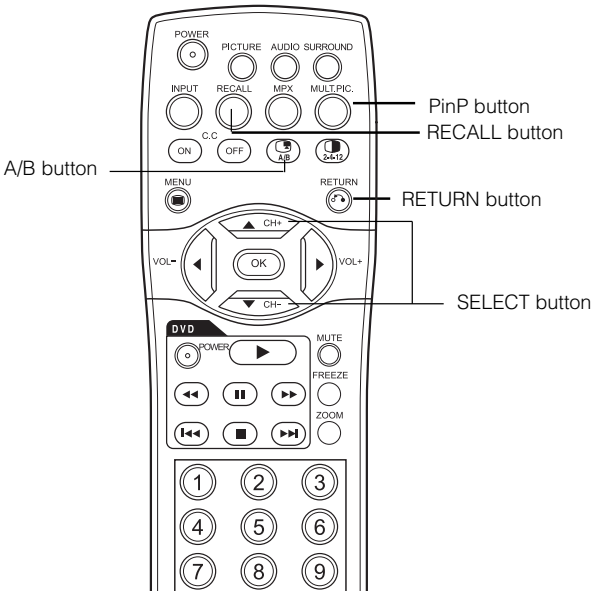
Press ▼

ATTENTION

Using a wide-screen monitor

- This monitor has a screen mode selection feature. If an incompatible screen mode is selected to play certain software, such as a TV program, the image would appear different from the original. Take this into consideration when making screen mode choices.
- Use of this monitor in its enlarged display mode with the wide feature enabled in coffee shops, hotels and other establishments for commercial or pubic viewing purposes could infringe on the copyright holder's right protected by Copyright Law.
- When a normal 4:3 image is displayed over the entire screen in the Panoramic mode, parts of the periphery of the image may disappear and/or appear distorted in some cases. Use the 4:3 mode to view images, which were created in 4:3 mode. This mode allows 4:3 content to be viewed without picture distortion.





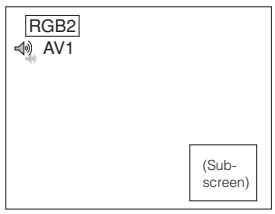
Displaying MULTI PICTURE

If the PinP button on the remote control is pressed MULTI PICTURE will display.

Activating the P-in-P mode from the RGB input screen

Pressing the PinP button one time will display 2 pictures.

- This mode can be available from RGB1(DVI-PC) and RGB2(RGB) input.
- The speaker icon can be shifted up and down by pressing the A/B button; the audio of the video will be output from the side on which the speaker icon is located.
- The sub-screen position can be selected up and down by pressing ▼ ▲ SELECT buttons.
- The sub-screen can be selected with the AV1, AV2, AV3, AV4 and TV channel number buttons from the status that the speaker icon appears on the left side of AV✱ as shown in the diagram to the right.

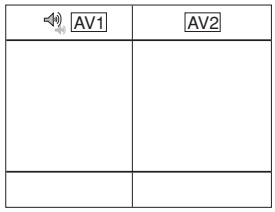


- Pressing the PinP button again or the RETURN button will cancel the 2 pictures display.
- "Frequency Mode" in the Setup Menu should be set to Movie when sub-screen is the component signal of 1080i/50 or 1080i/60.

AV1: Displays the VIDEO input signal of the sub-screen.

Activating the Split mode from the video input screen

Pressing the PinP button one time will display 2 pictures.

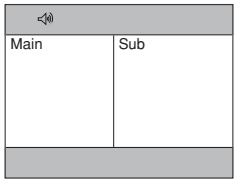


- The speaker icon can be shifted left and right by pressing the A/B button; the audio of the video will be output from the side on which the speaker icon is located.
- The same video input mode cannot be selected for both screens at the same time.
- Pressing the PinP button again or the RETURN button will cancel the 2 pictures display.
- When the Video input is set to RGB Video, this Split mode is not possible.
- Refer to the table for 2 pictures (Split) mode.

2 Pictures (Split)

Input terminal		AV1～AV4		AV1, AV2					RGB1	RGB2
	Main \ Sub	PAL-N	NTSC-M PAL-M	576i 576p	480i 480p	1080i/50	1080i/60	720p/60	STB	Component
AV1 ～AV4	PAL-N	○	○	○	○	○	○	○		
	NTSC-M , PAL-M	○	○	○	○	○	○	○		
AV1 AV2	576i, 576p	○	○							
	480i, 480p	○	○							
	1080i/50	○	○							
	1080i/60	○	○							
	720p/60	○	○							
RGB1	STB									
RGB2	Component	○	○	○	○	○	○	○		

(○: Available)



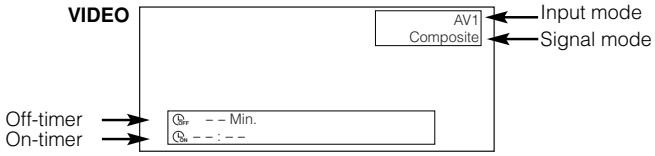
NOTE

- Even if the input of the horizontal / vertical synchronizing signal (or video signal) stops in the MULTI PICTURE display, the mode will not change to power save mode.
- Please be careful since image retention will occur if display is left in a MULTI PICTURE display state for a long period of time.

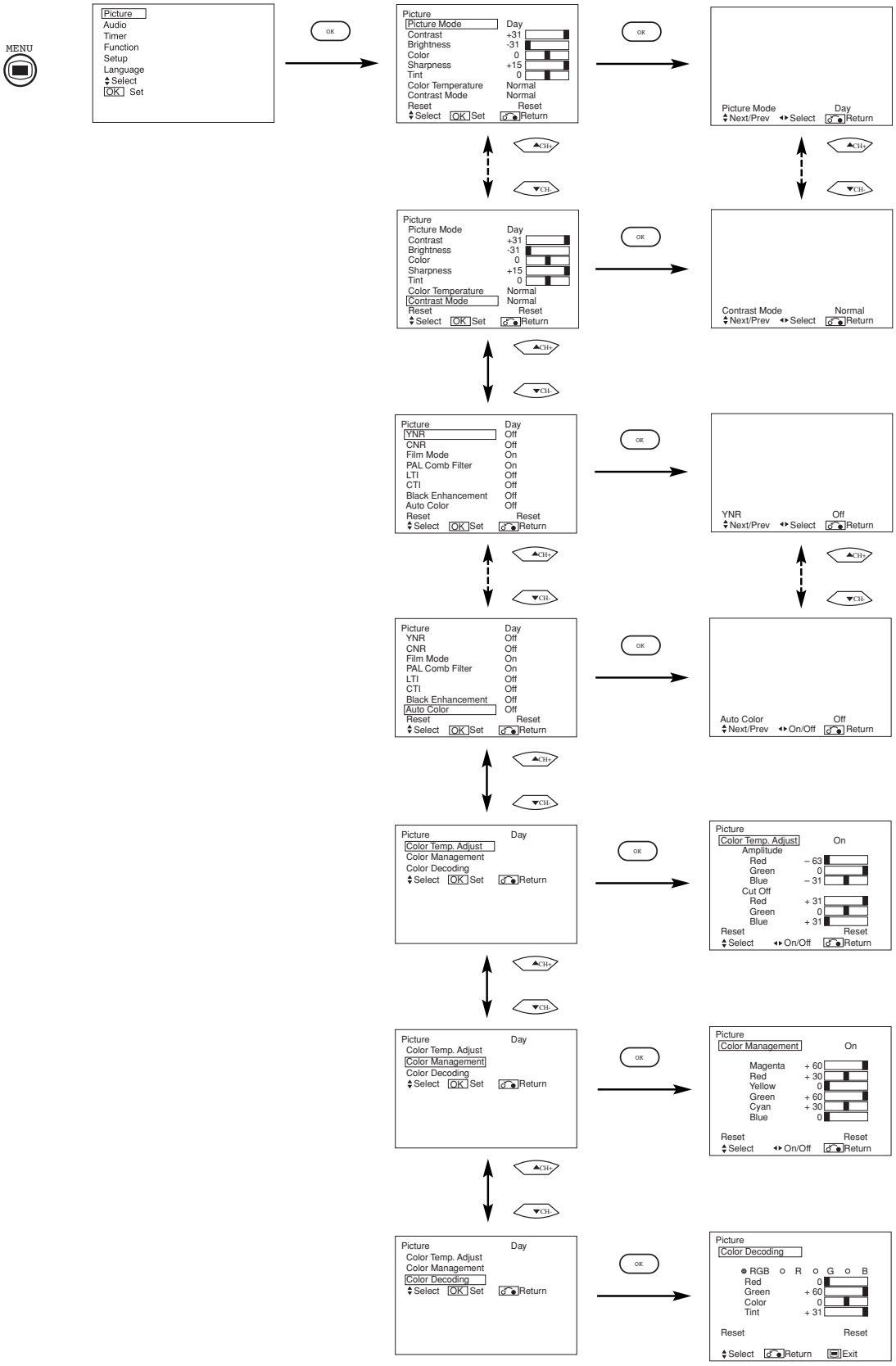
Input Signal Screen Display

The input signal status can be displayed on the screen by pressing the RECALL button of the remote control or the monitor.

- The display will go out in approximately 6 seconds.



PICTURE MENU



OPERATING INSTRUCTIONS (continued)

PICTURE MENU (continued)

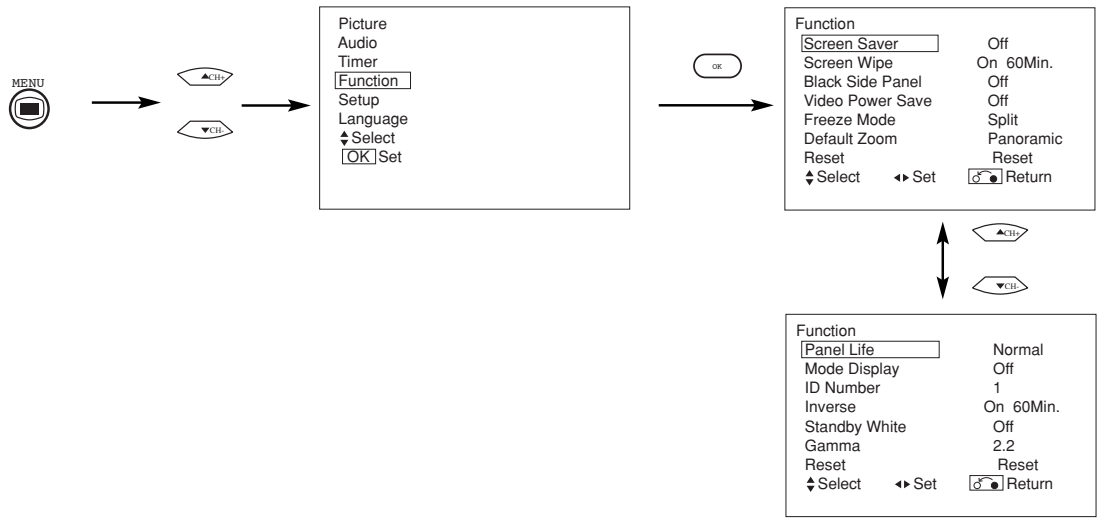
Selected characters		◀	▶	Setup hint
Picture Mode		Day ◀▶ Night ◀		Day: This setting is best for very bright ambient lighting. Night: This setting is for normal lighting conditions.
Contrast		Narrows the gap between brightness and darkness.	Broadens the gap between brightness and darkness.	Adjust for maximum visibility to suit the ambient brightness. This can adjust further till [+40] by pressing and holding ▶ cursor button at [+31]. The color for [+32] to [+40] numbers will change from white to magenta. This special mode is better for dark scenes. For normal viewing we recommend that the Contrast is set to [+31]. "Panel Life" in the Function Menu should be set to Normal when this Contrast setting is adjusted.
Brightness		Black is subdued for increased overall darkness.	Black is set off for increased overall brightness.	Adjust to taste.
Color		Darkens colors.	Lightens colors.	Adjust to taste.
Sharpness		Soft	Sharp	Normally set to Centre position Shift to the minus (-) side for a softer effect and plus (+) for sharper picture.
Tint		Enhances red and weakens green.	Enhances green and weakens red.	This is not available to adjust when receiving PAL/SECAM signal. Then the character will be grayed out. Adjust for most realistic skin color.
Color Temperature		Cool ◀▶ Normal ◀▶ Warm ◀▶ Black / White		Normally set to Cool.
Contrast Mode		Normal ◀▶ Auto ◀▶ Dynamic		Dynamic:Emphasizes the differences between video shadings to improve the feeling of contrast. Normal : The gradation of an image is reproduced as faithfully as possible. Auto:Detects image brightness and automatically adjusts for natural brightness.
Reset		(off the function)	(waiting to reset)	The original factory settings for the items of this Menu page can be restored by pressing the OK button.
YNR		Off ◀▶ Low ◀▶ High		Performs picture signal noise reduction. Turn up to reduce noise.
CNR				Performs color signal noise reduction. Turn up to reduce noise. And it will be fixed as Off only when selecting DVI-STB mode.
Film Mode		Off ◀▶ On		On:Automatically detects the movie film material and faithfully reproduces the original film image. Off:Set to OFF when switching between images does not appear natural.
PAL Comb Filter		Off ◀▶ On		This is available only when receiving a PAL composite signal. Turn On to reduce the discolorations in fine picture detail and provides purer color.
LTI		Off ◀▶ Low ◀▶ Middle ◀▶ High		Adjusts the sharpness of the picture signal.
CTI				Adjusts the sharpness of the color signal.
Black Enhancement				Adjusts the black level compensation.
Auto Color		Off ◀▶ On		This is available only when receiving an NTSC composite/S.Video signal. This monitors and adjusts the color to maintain constant color levels. It also maintains natural flesh tones while preserving fidelity of background colors.
Color Temp. Adjustment		Off ◀▶ On		Turn On when you wish to change color temperature depending on the user's preference.
Amplitude	Red	Brighter scene is decreased in reddish color.	Brighter scene is increased in reddish color.	Adjust color temperature depending on the user's preference. These settings are independently stored in each of the 4 Color Temperature modes.
	Green	Brighter scene is decreased in greenish color.	Brighter scene is increased in greenish color.	
	Blue	Brighter scene is decreased in bluish color.	Brighter scene is increased in bluish color.	
Cut Off	Red	Dark scene is decreased in reddish color.	Dark scene is increased in reddish color.	
	Green	Dark scene is decreased in greenish color.	Dark scene is increased in greenish color.	
	Blue	Dark scene is decreased in bluish color.	Dark scene is increased in bluish color.	

PICTURE MENU (continued)

Selected characters	◀	▶	Setup hint
Color Management	Off ◀▶ On		Turn On when the original balance of each color is required to adjust depending on the user's preference.
Magenta	Magenta is weakened.	Magenta is strengthened.	This adjusts listed colors individually to make them either deeper or more pure. These settings are independently stored in each of the 4 Color Temperature modes.
Red	Red is weakened.	Red is strengthened.	
Yellow	Yellow is weakened.	Yellow is strengthened.	
Green	Green is weakened.	Green is strengthened.	
Cyan	Cyan is weakened.	Cyan is strengthened.	
Blue	Blue is weakened.	Blue is strengthened.	
Color Decoding	RGB ◀▶ R ◀▶ G ◀▶ B		Select the single color screen when that is required to adjust R/G/B level individually depending on the user's preference. And set it back to RGB mode that indicates all color after adjusting. Press the OK button every time the setting is changed.
Red	Darkens red only.	Lightens red only.	This adjusts R/G/B level or tint to make the color appear natural for the user's preference. These settings are independently stored in each of the 4 Color Temperature modes.
Green	Darkens green only.	Lightens green only.	
Color	Darkens colors.	Lightens colors.	
Tint	Enhances red and weakens green.	Enhances green and weakens red.	

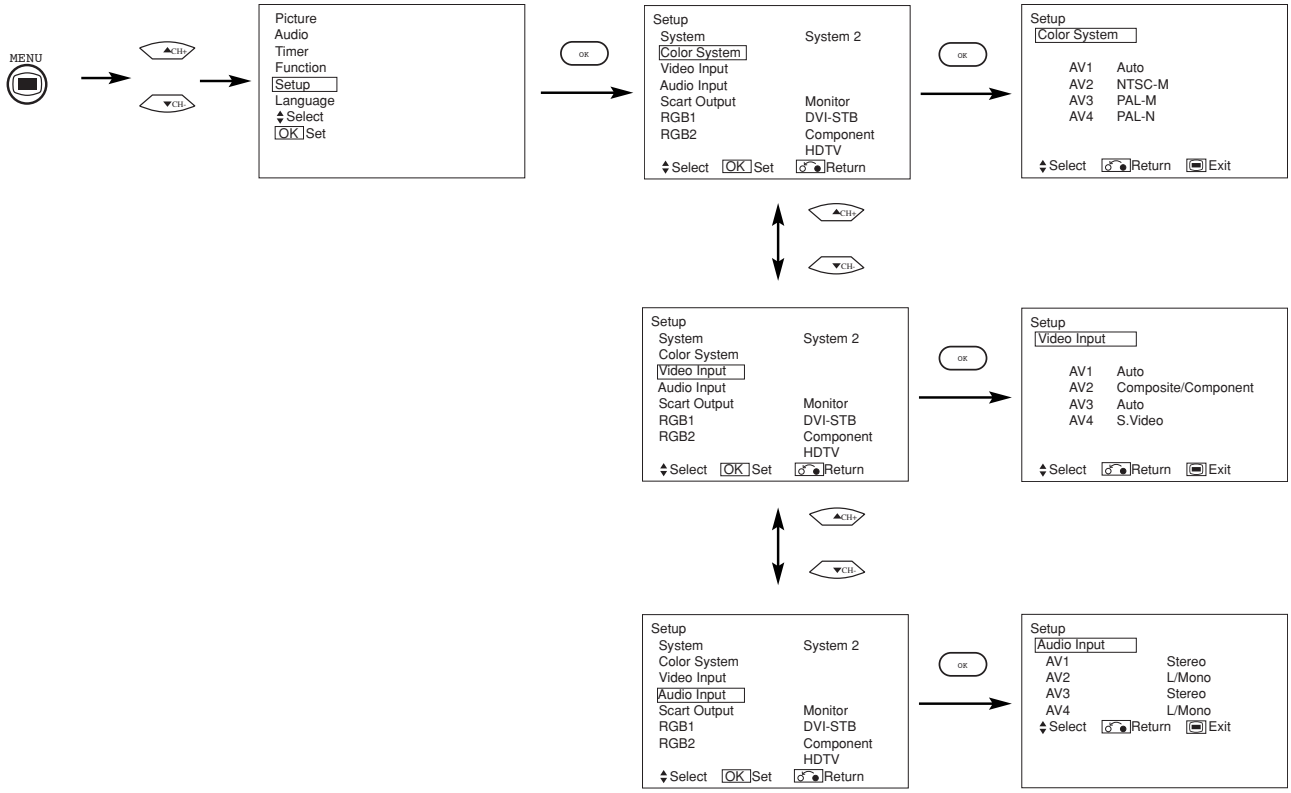
FUNCTION MENU

1 item is added to the Menu shown in the page 23 .



Selected characters	◀	▶	Setup hint
Video Power Save	Off ◀▶ On		This is used to reduce power consumption for video input when there is no video signal. Setting it On will leads the monitor to the standby mode when the AV input with no signal is selected.

SETUP MENU



Selected characters	◀ / ▶	Setup hint
System	System1 ⟷ System2	Do not change the original setting. (System1 : Europe/Asia, System2 : North America)
Color System		
AV1	Auto ⟷ NTSC-M PAL-N ⟷ PAL-M	This should correspond to the color system of the signal from the equipment that is connected to AV1 video input terminal. • Normally, set this to Auto. The system of the input signal will be automatically recognized. • If the input signal contains much noise or has a low level at Auto and the operation is found erratic, set this to match the input signal. • When the component signal is received, this would be not available (grayed out).
AV2	(Same to AV1)	
AV3		
AV4		
Video Input		
AV1	Auto ⟷ HDTV ⟷ SDTV/DVD	This should correspond to the signal mode of the signal from the equipment that is connected to AV1 video input terminal. • Normally, set this to Auto. The signal mode of the input signal will be automatically recognized. • If the input signal contains much noise or has a low level at Auto and the operation is found erratic, set this to match the input signal.
AV2 (1st step)	RGB ⟷ Composite/Component	This should correspond to the signal mode of the signal from the equipment that is connected to AV2 video input terminal.
AV2 (2nd step)	Auto ⟷ HDTV ⟷ SDTV/DVD	This step should be set only when [Composite/Component] is selected on the 1st step. And the procedure is same to AV1.
AV4	S.Video ⟷ Composite	• If the signal from the equipment that is connected to AV4 Scart input terminal is S.Video or Composite, set this to correspond to that signal. • If the signal is RGB, it will be automatically recognized and this setting will have no effect.

OPERATING INSTRUCTIONS (continued)

SETUP MENU (continued)

Selected characters	◀ ▶	Setup hint
Audio Input		
AV1	Stereo ◀▶ L/Mono	This should correspond to the audio signal from the equipment that is connected to AV1 audio input terminal. If it is monaural audio, set this to L/Mono.
AV2	(Same to AV1)	
AV3		
AV4		
Scart Output	TV ◀▶ Monitor	TV:AV4 (Scart) output will be fixed as TV signal output. Monitor:AV4 (Scart) output can view the image as on the main unit. But it is possible to monitor only the composite video signal from AV1, AV2, or AV3 input that is displayed on the screen at the time.
RGB1	DVI-PC ◀▶ DVI-STB	This should correspond to the signal mode of the signal from the equipment that is connected to RGB1 DVI terminal.
RGB2 (1st step)	RGB ◀▶ Component	This should correspond to the signal mode of the signal from the equipment that is connected to RGB2 D-sub terminal
RGB2 (2nd step)	Auto ◀▶ HDTV ◀▶ SDTV/DVD	This step should be set only when [Component] is selected on the 1st step. This should correspond to the signal mode of the signal from the equipment that is connected to RGB2 D-sub terminal • Normally, set this to Auto. The signal mode of the input signal will be automatically recognized. • If the input signal contains much noise or has a low level at Auto and the operation is found erratic, set this to match the input signal

OTHER FEATURES

Automatic Store

Approximately 1 sec. after adjustment is completed, the adjustments will be recorded as shown in the table below.

Menu	Display	Registration condition
Picture	Picture Mode	1 setting is registered.
	Contrast	For every input function and every Picture Mode, 1 setting is registered.
	Brightness	
	Color	
	Sharpness	
	Tint	
	Color Temperature	
	Contrast Mode	
	YNR	
	CNR	
	Film Mode	
	PAL Comb Filter	
	LTI	
	CTI	
	Black Enhancement	
	Auto Color	
	Color Temp. Adjust	
	R Amplitude	For every Color Temperature, 1 setting is registered.
	G Amplitude	
	B Amplitude	
	R Cut Off	
	G Cut Off	
	B Cut Off	
	Color Management	For every input function and every Picture Mode, 1 setting is registered.
	Magenta	1 setting is registered.
	Red	

Menu	Display	Registration condition
Picture	Yellow	1 setting is registered.
	Green	
	Cyan	
	Blue	
	Color Decoding	-
	Red	For every Color Temperature, 1 setting is registered.
	Green	
	Color	For every input function and every Picture Mode, 1 setting is registered.
	Tint	
Function	Video Power Save	1 setting is registered.
Setup	System	1 setting is registered.
	Color System	1 setting is registered.
	AV1	
	AV2	
	AV3	
	AV4	
	Video Input	-
	AV1	1 setting is registered.
	AV2	
	AV4	
	Audio Input	-
	AV1	1 setting is registered.
	AV2	
	AV3	
	AV4	
	RGB1	
	RGB2	

• The previously recorded items will be lost.

TROUBLESHOOTING

Symptoms That Seemingly Appear to be Failures

Make the checks suggested below depending on the symptoms observed. If the symptoms remain uncorrected, contact your dealer.

⚠ WARNING

Customer servicing can be hazardous.

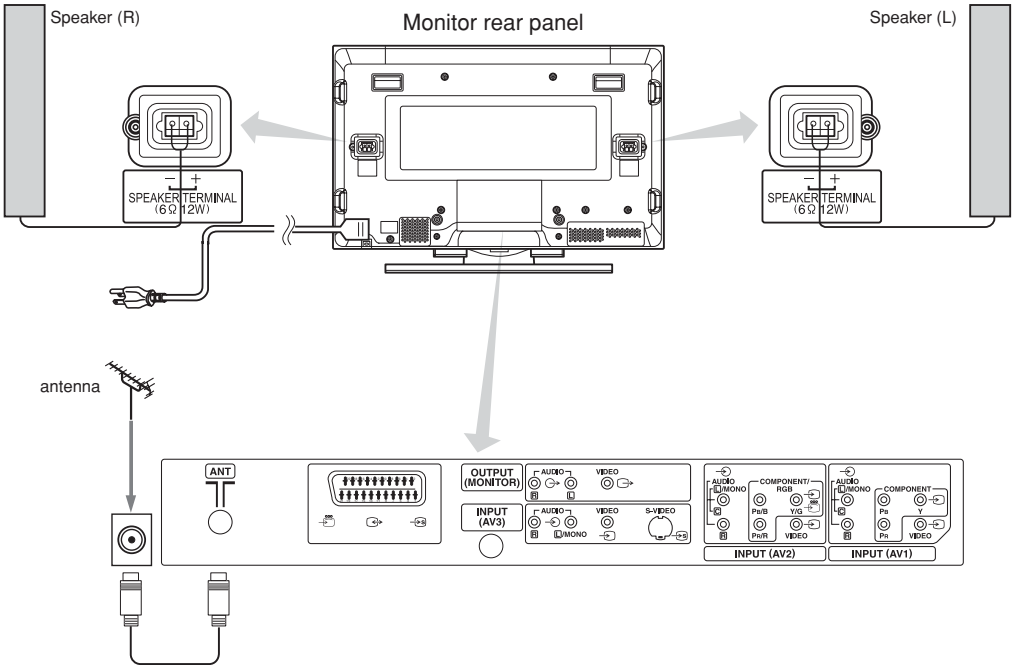
Symptom	Point to check	See page
• The screen becomes dark and the images cannot be seen during VCR special playback (fast forward, rewind).	• This sometimes occurs when a component output VCR such as the 480i is connected. This is not a malfunction; therefore, please take note that this may occur. When it does occur, change to composite output, or S.video output.	–

TUNER UNIT FUNCTION

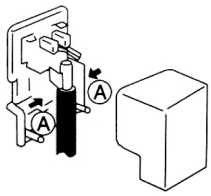
INSTALLATION INSTRUCTIONS

Connecting Antenna

Make sure that the power switch of the monitor is turned off.



When the "ANT" terminal is connected to outdoor antenna instead of CATV system, please note that a good antenna adaptor is necessary. See the diagram on the right.



Precautions when connecting the antenna

- Clamp section Ⓐ using pliers when installing the coaxial cable. If other types of adaptors are used, be sure that the core and shielding are good.
- Please use a coaxial cable which is free from interference to connect the antenna. Avoid using a parallel flat feeder wire as interference may occur, causing reception to be unstable and stripe noise to appear on the screen.
- Avoid using indoor antenna as this may be affected by interference. Please use CATV net or outdoor antenna.
- Keep the power cord as far away from the antenna wire as possible.

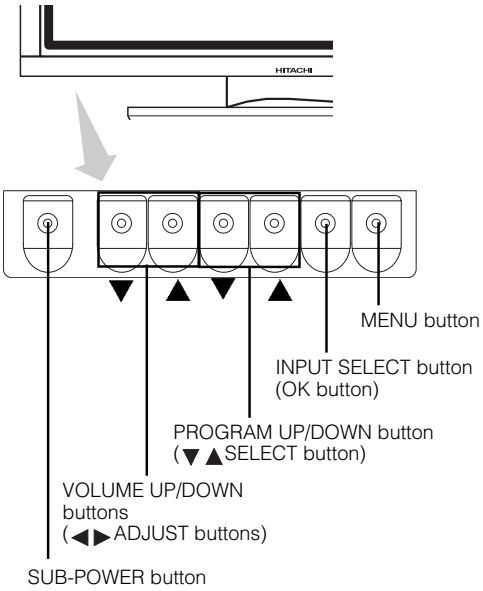
If there are noise appearance in the picture of VHF-Low band channel, please use the double-shielded cable (not provided) for RF LEADS to reduce the noise.

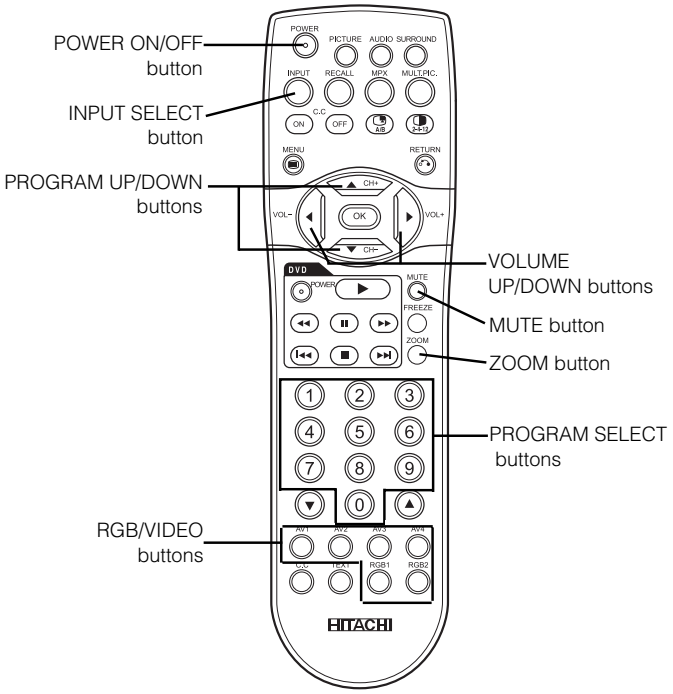
VHF(300-Ohm) antenna / UHF antenna
When using a 300-ohm twin lead from an outdoor antenna, connect the VHF or UHF antenna leads to screws of the VHF or UHF adapter. Plug the adapter into the antenna terminal on the TV.

When both VHF and UHF antennas are connected
Attach an optional antenna cable mixer to the TV antenna terminal, and connect the cables to the antenna mixer. Consult your dealer or service store for the antenna mixer.

OPERATING INSTRUCTIONS

The functions of the buttons located on the bottom of the monitor change as shown below:





• ( ) indicates the function while the MENU is displayed on the screen.

Input Switching

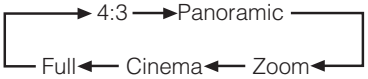
- **Input can be switched by pressing the AV1, AV2, AV3, AV4, RGB1 or RGB2 buttons of the remote control. And the way to return to a TV channel is as follows:**
  - Pressing INPUT SELECT button at RGB2 input screen.
  - Pressing some PROGRAM SELECT buttons and select a TV channel.
  - Pressing PROGRAM UP/DOWN buttons at the screen without OSD(On-screen display).

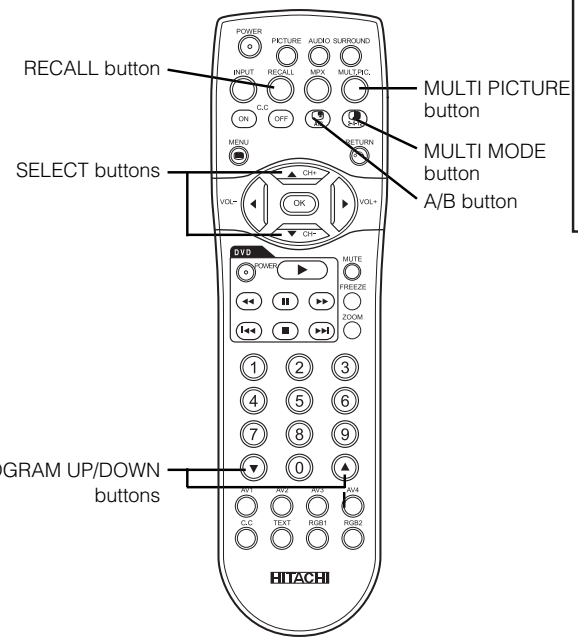
- **Input can be switched in the sequence of TV → AV1 → AV2 → AV3 → AV4 → RGB1 → RGB2 by pressing the INPUT SELECT button of the monitor or the remote control.**

Size Switching

Each time the ZOOM button of the remote control is pressed, the screen display size will change in sequence and the status will be displayed at the bottom of the screen.

- **During TV mode**





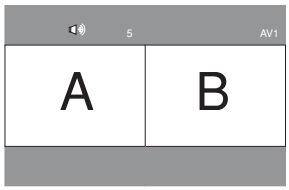
Displaying MULTI PICTURE

If the MULTI PICTURE button on the remote control is pressed, multi pictures will display. And then three types of the screen can be selected by pressing the MULTI MODE button on the remote control.
The multi picture mode will change in the following sequence each time the MULTI MODE button is pressed.

2 pictures (Split) → 4 pictures → 12 pictures

Activating the Split mode from the TV screen

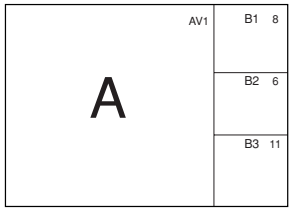
Pressing the MULTI PICTURE button one time will display 2 pictures.



- The speaker icon can be shifted left and right by pressing the A/B button; the audio will be output from the side on which the speaker icon is located.
- The same signal input cannot be selected for both screens at the same time.
- The TV channel can be changed by pressing the ▲ and ▼ PROGRAM UP/DOWN buttons on the remote control.
- The signal input mode of picture-A or picture-B (the one that the speaker icon is located on) can be selected by pressing INPUT SELECT button on the remote control.
- Pressing the MULTI PICTURE button once again will cancel the multi picture mode.
- When the Video input is set to RGB Video, multi picture mode is not possible.
- Refer to the table for 2 pictures (Split) mode. 44

Activating the 4 pictures mode from the TV screen

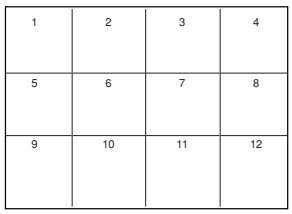
Pressing the MULTI MODE button one time at the 2 pictures mode will display 4 pictures.



- Press [A/B] button to select picture A or picture B indicated by a red triangle. For pictures on right, press ▲ ▼ SELECT buttons to select picture. The selected channel number would change green.
- The TV channel can be changed by pressing the ▲ and ▼ PROGRAM UP/DOWN buttons on the remote control.
- The audio can only be output from picture A in 4 pictures mode.
- The same signal input mode cannot be selected for each screens at the same time.
- Pressing the MULTI PICTURE button at the 4 picture mode will cancel the multi picture mode. And then, pressing the MULTI PICTURE button again will display the 4 pictures.
- Refer to the table for 4 pictures mode. 44

Activating the 12 pictures mode from the TV screen

Pressing the MULTI MODE button one time at the 4 pictures mode will display 12 pictures.



- Starting from channel 1, preset channels will automatically display in sequence on the 12 windows.
- This function activates only in TV mode.
- After several seconds, it refreshes the picture one by one.
- Pressing the MULTI PICTURE button at the 12 picture mode will cancel the multi picture mode. And then, pressing the MULTI PICTURE button again will display the 12 pictures again.
- Pressing the MULTI MODE button at the 12 picture mode will display the 2 pictures (Split) mode.

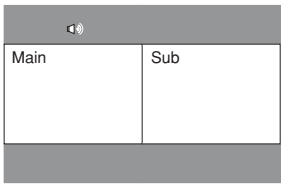
NOTE

- Even if the input of the horizontal / vertical synchronizing signal (or video signal) stops in the multi picture display, the mode will not change to power save mode.
- Please be careful since image retention will occur if display is left in a multi picture display state for a long period of time.

2 Pictures (Split)

Input terminal	Main \ Sub	AV1～AV4 PAL-N	AV1～AV4 NTSC-M PAL-M	AV1, AV2 576i 576p	AV1, AV2 480i 480p	AV1, AV2 1080i/50	AV1, AV2 1080i/60	AV1, AV2 720p/60	RGB1 STB	RGB2 Component
AV1 ～AV4	PAL-N	○	○	○	○	○	○	○		
	NTSC-M,PAL-M	○	○	○	○	○	○	○		
AV1 AV2	576i, 576p	○	○							
	480i, 480p	○	○							
	1080i/50	○	○							
	1080i/60	○	○							
	720p/60	○	○							
RGB1	STB									
RGB2	Component	○	○	○	○	○	○	○		

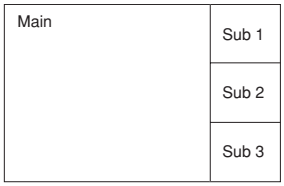
(○ : Available)



4 Pictures

Input terminal	Main \ Sub	AV1～AV4 PAL-N	AV1～AV4 NTSC-M PAL-M	AV1, AV2 576i 576p	AV1, AV2 480i 480p	AV1, AV2 1080i/50	AV1, AV2 1080i/60	AV1, AV2 720p/60	RGB1 STB	RGB2 Component
AV1 ～AV4	PAL-N	○	○							
	NTSC-M, PAL-M	○	○							
AV1 AV2	576i, 576p	○	○							
	480i, 480p	○	○							
	1080i/50	○	○							
	1080i/60	○	○							
	720p/60	○	○							
RGB1	STB									
RGB2	Component	○	○							

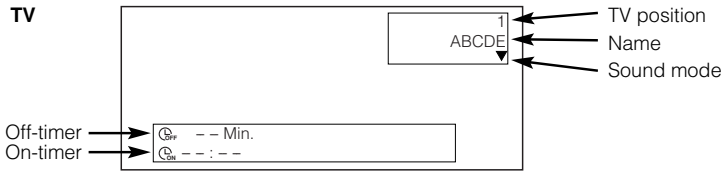
(○ : Available)



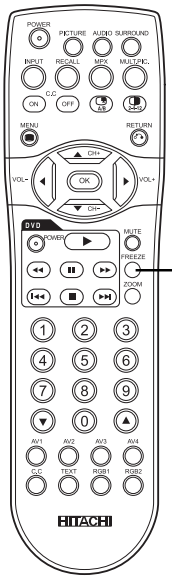
Input Signal Screen Display

The TV channel status can be displayed on the screen by pressing the RECALL button of the remote control.

・The display will go out in approximately 6 seconds.



OPERATING INSTRUCTIONS (continued)



Picture Freezing

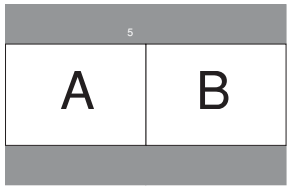
When the FREEZE button on the remote control is pressed, the screen transfers into the freeze mode.

- There are two types of freezing screen mode, Split and Strobe. These are possible to select at the “Freeze Mode” setting of the Function Menu.
- The Split mode will display 2 pictures from the same source on the screen with one active picture and the other still.
- The Strobe mode will display 12 pictures with the last picture active, while other 11 windows are still.
- Pressing the FREEZE button again changes the screen back to the normal picture.
- This function is also available from video input mode besides TV mode. Refer to the table for Freeze function as below:

	Split	Strobe
PAL-N	○	○
NTSC-M,PAL-M	○	○
576i	○	○
480i	○	○
576p	○	
480p	○	
1080i/50	○	
1080i/60	○	
720p/60	○	
RGB, DVI-PC		

(○ : Available)

[Split]



[Strobe]

1	2	3	4
5	6	7	8
9	10	11	12 Active

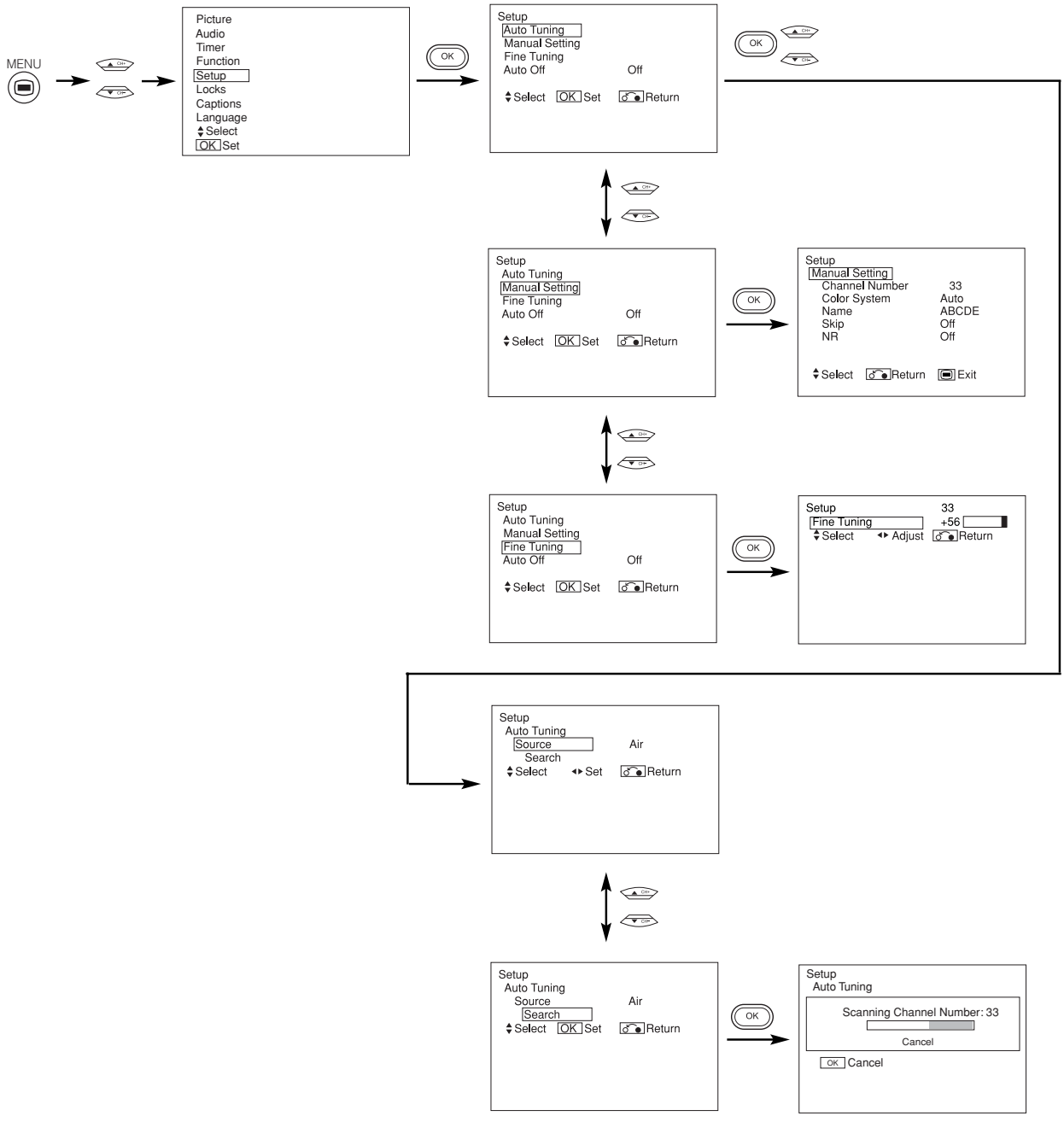
FUNCTION MENU

Refer to the page 37 .(It is same to the Picture Menu of Video Unit function)
But 2 item is added and 5 items are deleted.

Selected characters	◀ / ▶	Setup hint
Freeze Mode	Split ⟷ Strobe	This selects the display condition of the FREEZE mode between Split (2 pictures) and Strobe (12 pictures).
Default Zoom	Panoramic ⟷ 4:3	This selects the screen display size that appears first when the power turned on.
Mode Display	Not Available (grayed out)	
ID Number	Not Available (grayed out)	
Inverse	Not Available (grayed out)	
Standby White	Not Available (grayed out)	
Gamma	Not Available (grayed out)	

SETUP MENU

[During TV mode]



SETUP MENU (continued)

Selected characters	◀	▶	Setup hint
Auto Tuning			
Mode	[Air] - [Cable 1] - [Cable 2]		Select [Air] if you are using an indoor or outdoor antenna. Select Cable if you have cable TV. If certain CATV channels are poor or not-possible in [Cable 1] mode, select [Cable 2].
Search	–	–	Press the OK button and it starts the auto tuning.
Manual Setting			
Channel Number	–	–	Set the channel numbers by ▼ ▲PROGRAM UP/DOWN buttons, and they are protected by lock.
Color System	Auto ↔ NTSC-M PAL-N ↔ PAL-M		Select the color system through the 4 different settings.
Name	□↔□↔□↔□↔□ (□:a letter)		This is used to input the name of the TV station within 5 letters. After fixing the cursor on the first digit, select a letter by▼▲ SELECT buttons and move to next digit by ▶ ADJUST button. Press the OK button again after finished. • Selectable letters are "0"~`"9", "A"~`"Z", "+", "–", " "(blank), ","(comma) and "."(period).
Skip	Off ↔ On		If this is set to On, that position will be skipped while selecting positions by PROGRAM UP/DOWN buttons. This is automatically set to On for those non-broadcasting channels.
NR	Off ↔ On		If this is set to On, it helps to reduce the noise interference visible on the screen, especially in the weaker signal reception areas.
Fine Tuning	Decreasing the frequency data for the main tuner	Increasing the frequency data for the main tuner.	After completing the fine-tuning, press the RETURN button to exit this mode.
Auto Off	Off ↔ On		If this is set to On, the power will be turned off when there is no transmission signal and no operation for about 10 minutes in the TV mode.

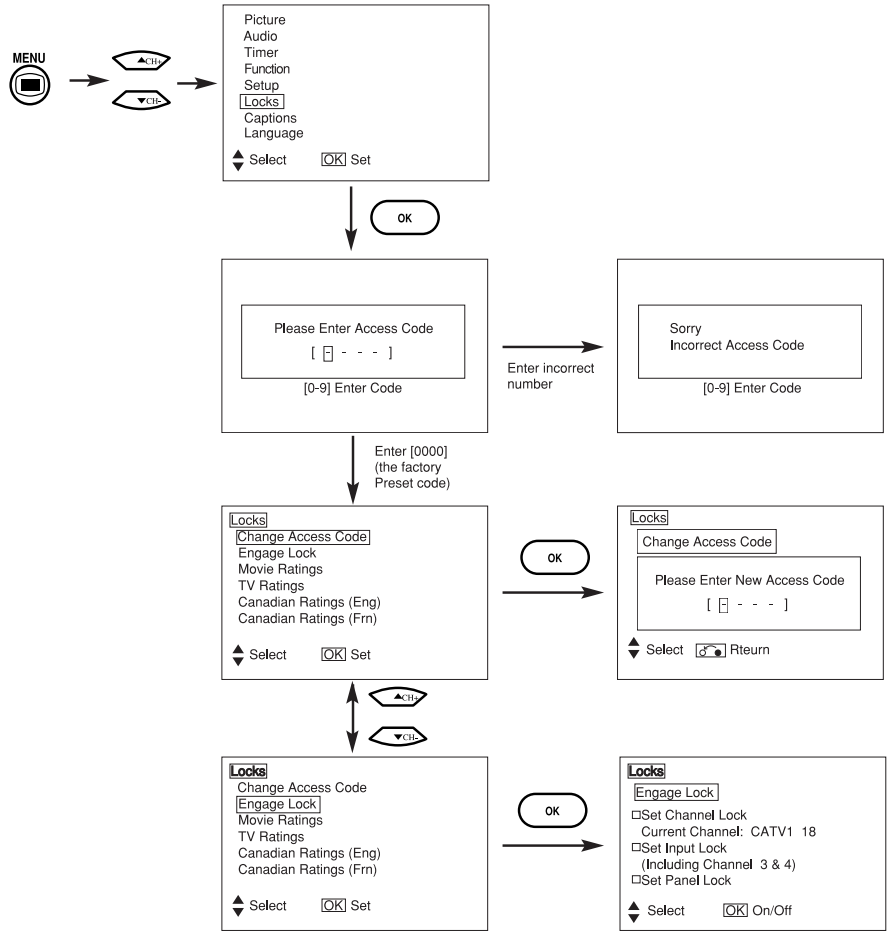
[During VIDEO signal input]

This item is also shown in the page 39 .

Selected characters	◀	▶	Setup hint
Scart Output	TV ↔ Monitor		TV:AV4 (Scart) output will be fixed as TV signal output. Monitor:AV4 (Scart) output can view the image as on the main unit. But it is possible to monitor only the composite video signal from AV1, AV2, or AV3 input that is displayed on the screen at the time.

OPERATING INSTRUCTIONS(continued)

LOCKS MENU

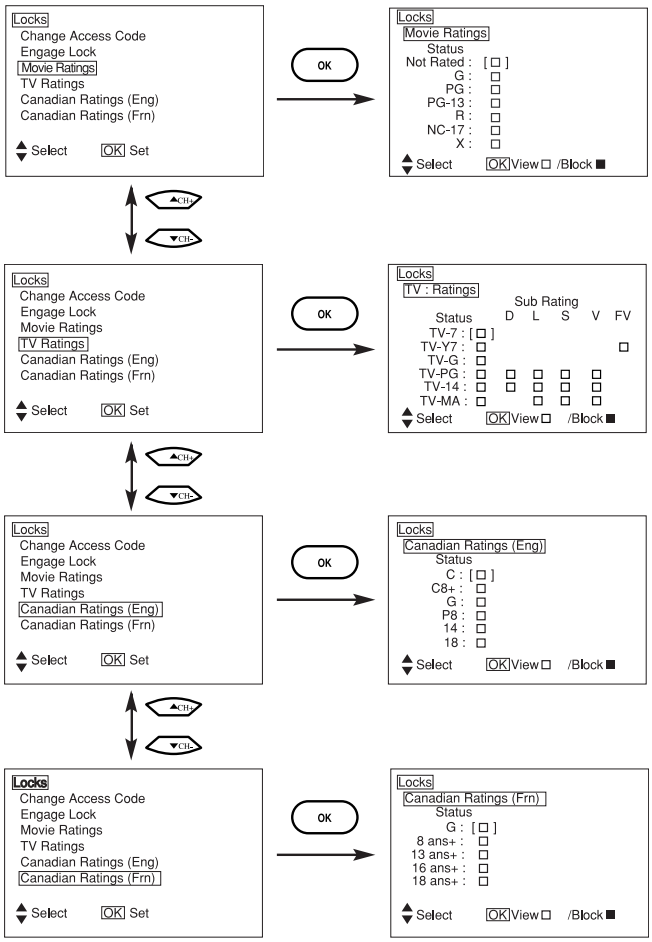


This function will block out the picture and sound of the selected channel or video input. The code to enter the LOCKS feature is a four-digit secret code number. Use the number buttons to select secret code.

Change Access Code	Please Enter Access Code	The factory preset code is (0000).
	Please Enter NEW Access Code	This is used to enter a new four digit key number you prefer.
Engage Lock	Set Channel Lock	When this is turned on, the picture and sound for the chosen channel will be blocked out.
	Set Input Lock	When this is turned on , the picture and sound for all video inputs and the picture and sound for channels 3,4 will be blocked out.
	Set Front Panel Lock	When this is turned on, all buttons on the Front Panel will be deactivated, except the Power button.
Movie Ratings	Not Rated : G ; PG ; PG-13 ; R ; NC-17; X	When this is selected, you can block various types of movies and videotapes based on motion picture ratings. Picture-in Picture will also be blocked automatically.
TV Ratings	TV-Y ; TV-Y7 (FV) ; TV-G ; TV-PG (D ; L ; S ; V) TV-14 (D ; L ; S ; V) ; TV-MA (L ; S ; V)	When this is selected, various types of television programming based on parental guide ratings will be blocked. Picture-in-Picture will also be blocked automatically.
Canadian Ratings (Eng)	C ; C8+ ; G ; PG ; 14+ ; 18+	Use this to block various types of movies and television programs based on the two rating systems used in Canada that you feel may be inappropriate due to its content.
Canadian Ratings (Frn)	G ; Bans+ ; 13ans+ ; 16ansf+ ; 18ans+	

If you forget your secret code, use the factory code (7777) to erase your key number. This will reset the secret code number back to the factory preset (0000).

LOCKS MENU (continued)



Movie Ratings

This is to prevent viewing of any movie that you feel mange inappropriate due to its content. Use ▲ or ▼ SELECT button to select the MOVIE RATING category that you want to block. Press OK button to block the MOVIE RATING that you have selected. Once rating is selected, for example PG-13, all movies rated PG-13 and higher (R, NC-17 and X) will be blocked.
Press RETURN to return to the previous menu.

Motion Picture Ratings Chart	
Not Rated (NR)	**Contains no rating. Not Rated (NR) and Not Applicable (NA) programs.** Movie has not been rated or ratings do not apply.
G	**General audiences.** All ages admitted.
PG	**Parental guidance suggested.** some material may not be suitable for children.
PG-13	**Parents strongly cautioned.** Some material may be inappropriate for children under 13.
R	**Restricted.** Under 17 requires accompanying parent or adult guardian.
NC-17	**No one 17 and under admitted.**
X	**Adults only.**

TV Ratings

This is to prevent viewing of any TV program that you feel may be inappropriate due to its content.
Use ▲ or ▼ SELECT button to highlight the category that you want to block.
Press OK button to block the TV RATING that you have selected.
Press RETURN button to return to the previous menu.

TV Parental Guide Ratings Chart	
TV-Y	**All children.** The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	**Directed to older children.** Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
TV-G	**General audience.** It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
TV-PG	**Parental guidance suggested.** The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	**Parents strongly cautioned.** This program may contain sophisticated themes, intense sexual situation, more intense violence and intensely suggestive dialogue.
TV-MA	**Mature audience only.** This program may contain mature themes, indecent language, graphic violence and explicit sexual content.
FV	**Fantasy Violences**
V	**Moderate Violences**
S	**Sexual Situations**
L	**Coarse Language**
D	**Suggestive Dialogue**

NOTE

If you block TV-14D, you will still permit TV MA programs; if you block TV-14DV, you will automatically block TV-MAV programs, but you will still permit TV-MALS programs. This means that the TV will block violence in TV-14 and higher (TV-MA).but not languate and sex.

Canadian Ratings (Eng)

This is used to block Canadian French programs according to various program ratings that you feel may be inappropriate due to its content.
Use ▲ or ▼ SELECT button to highlight the category that you want to block.
Press OK button to set the CANADIAN RATINGS (Eng) that you have selected. Once rating is selected, for example C8+, all movies and televsion programs rated C8+ and higher (G, PF, 14+ and 18+) will be blocked automatically.
Press RETURN button to return to the previous menu.

Canadian Ratings English Chart	
C	**Programming intended for children under age 8 -** Violence Guidelines: Careful attention is paid to themes, which could threaten children's sense of security andwell-being. There will be no realistic scenes of violence. Depoctions of affressive behaviour will ve infrequent and limited to portrayals that are clearly imaginary, comedic or un realistic in nature. Other content Guidelines: There will be no offensive language, nudity or sexual content.
C8+	**Programming generally considered acceptable for children 8 years and over to watch on their own -** Violence will not be portrayed as the preferred, acceptable or only way to resolve conflict; or encourage children to limitate dangerous acts which they may see on television. Anyrealistic depicions of violence will be infrequent, discreat, of low intensity and will show the consequences of the acts. Other Content Guidelines: There will be no profanity, nudity or sexual content.
G	**General Audiece -** Violence Guidelines: Will conain very little violence, either physical or verbal or emotional. Will be sensitveto themes wwhich could frighten a younger child. Will not depict realistic scenes of violence which minimize or gloss over the effects of violent aacts. Other Content Guidelines: There my be some inoffensive slang, no profanity and no nudity.
PG	**Parental Guideline -** Programming intended for a general audience but which may not be suitable for younger children. Parents may consider some content inappropriates for unsupervised viewing by chikdren ages 8-13. Violence Guidelines: Depictions of conflict and / or aggression will be limited and moderate; may include physical, fantasy or supernatural violence. Other Content Guidelines: May contain infresquent mild profanity or mildly suggestive language. Could also contain brief scenes of nudity.
14+	**Programming contains themes or contant which may not be suitable for viewers under the age of 14 -** Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Violence Guidelines: May contain intense scenes of violence. Could deal with mature themes and societal issues in a realistlo fashion. Other Content Guidelines: May contain scenes of nudity and/or sexual activity. There could be frequent use of profanity.
18+	**Adult -** Violence Guidelines: May cantain violence integral to the development of the plot, character or theme, intended for adults audiences. Other Content Guidelines: May contain graphic language and explicit portrayals of nudity and/or sex.

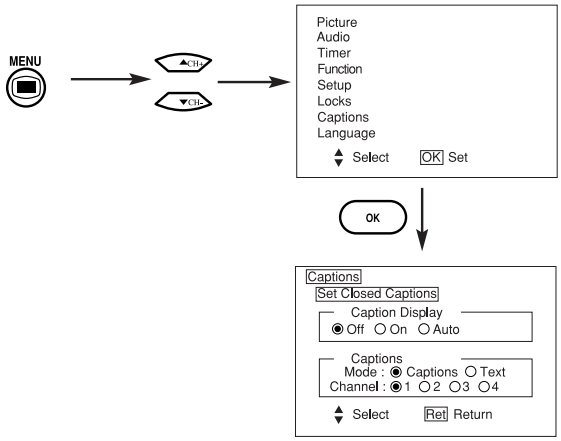
Canadian Ratings (Frn)

This is used to block Canadian French programs according to various program ratings that you feel may be inappropriate due to its content.
Use ▲ or ▼ SELECT button to highlight the category that you want to block.
Press OK button to set the CANADIAN RATINGS (Frn) that you have selected. Once rating is selected, for example 8 ans+, all movies and televsion programs rated 8 ans+ and higher (13 ans+, 16 ans+ and 18 ans+) will be blocked automatically.
Press RETURN button to return to the previous menu.

Canadian Ratings French Chart	
G	**General** - Programming intended for audiences of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately with humor or caricature or in an unrealistic manner.
8 ans+	**8 + General - Not recommended for young children** - Programming intended for a broad audience but contains light or occasional violence that could disturb young children. Viewing with an adult is therefore recommended for young children (under the age of 8) who connot differentiate between real and imagimary
13 ans+	**Programming may not be suitable for children under the age of 13** - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Viewing with an adult is therefore strongly recommended for children under 13.
16 ans+	**Programming is not suitable for children under the age of 16** - Contains frequent scenes of violence or intense violence.
18 ans+	**Programming restricted to adults** - Contains constant violence or scenes of extreme violence.

OPERATING INSTRUCTIONS(continued)

CAPTIONS MENU



Closed Captions are the dialogue, narration and/or sound effects of a televsion program or home video that are displayed on the Plasma Television screen.

Caption Display	[Off]-[On]-[Auto]	[On]/[Off]will turn the [C.C] Dispaly on or off. [Auto] will turn the [C.C] display on when Mute is on.
Mode	[Captions]-[Text]	[Captions] is for the program you are viewing. [Text] is for additional information such as news reports or a TV program guide. This information covers the entire screen, and viewing the TV program is not possible. Text may not be available with every [C.C] program.
Channel (Captions)	[1]-[2]-[3]-[4]	[1] is used for the primary language (usually English) [2] is sometimes used for a second language (may vary by region). [3] is sometimes used for a third language (may vary by region). [4] is sometimes used for a fourth language (may vary by region).
Channel (Text)		

NOTE
- CAPTION DISPLAY will not work for other Extended Data Services.
- When PIP (Multi Picture) mode is on, CAPTION DISPLAY activates on the selected display.

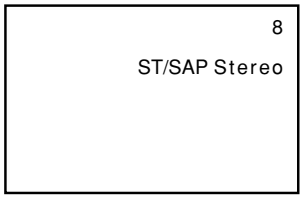
OTHER FUNCTIONS

Multi-Channel Telvision Sound

- The MPX button is only useful for Multi-Channel Television Sound signals. Otherwise pressing this button will have no effect.

Stereo and SAP (2nd Audio program) sound program

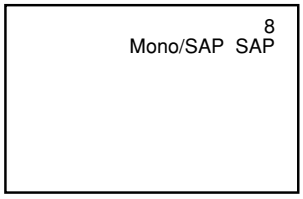
When bilingual program is received, sound mode display appears as shown on right.
Press the MPX button to select the sound to be heard.
Each time the button is pressed, Stereo, SAP or Mono appear cyclically on the screen.

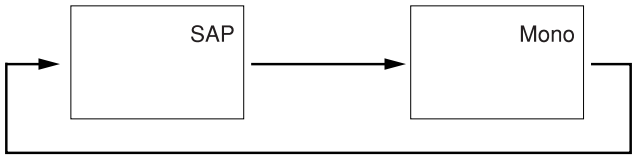


Mono and SAP (2nd Audio program) sound program

When a program is received, sound mode display will appear as shown on right, and you can press the MPX button to select between SAP and mono sound.

Each time the button is pressed, SAP or Mono appear cyclically on the screen.





Monaural sound

When a monaural program is received, sound mode display will appear.
You can press the MPX button to select the sound mode between monaural and forced mono (sound is same).

NOTE

- If sound signal is not strong enough for quality reception, press the MPX button until Mono appears on the screen to receive a clear mono sound.
- If sound has hiss noise or keep switching between stereo and mono mode or SAP and mono due to signal condition, press the MPX button until Mono appears on the screen to receive a clear mono sound.

Stereo sound

When a stereo program is received, sound mode display will appear.
You can press the MPX button to select the sound mode between stereo and mono (sound is same).

OPERATING INSTRUCTIONS (continued)

OTHER FUNCTIONS (continued)

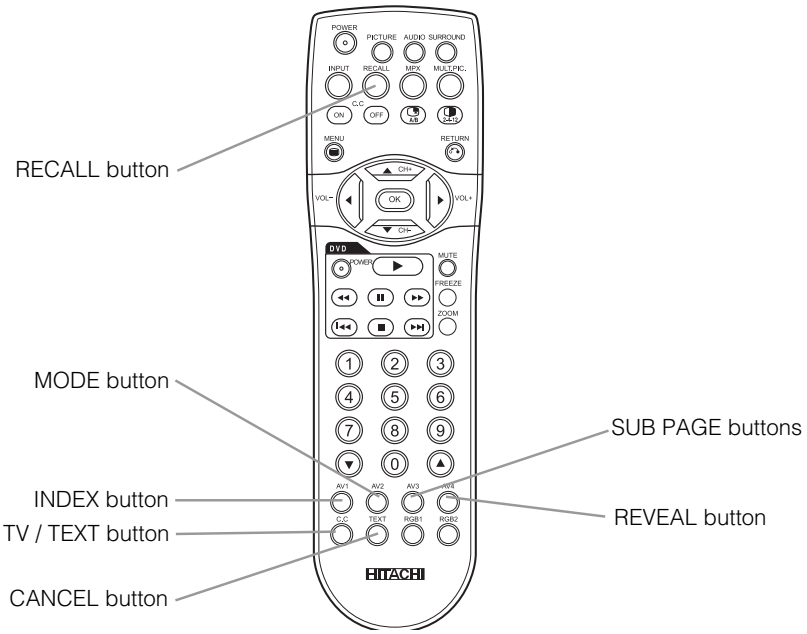
DVD Player Selection

- You can use this remote control to operate the selected brand of DVD player by pressing the following buttons on the remote control simultaneously.

Brands of DVD Player	Press	Brands of DVD Player	Press
Hitachi	RECALL + 1	RCA	RECALL + 9
Pioneer	RECALL + 2	Mitsubishi	RECALL + 0
Panasonic	RECALL + 3	Onkyo	RECALL + INDEX
Toshiba	RECALL + 4	Zenith	RECALL + MODE
Philips	RECALL + 5	Orion	RECALL + SUB PAGE
JVC	RECALL + 6	Shinco	RECALL + CANCEL
Samsung	RECALL + 7	Skyworth	RECALL + REVEAL
Sony	RECALL + 8	Bubuko	RECALL + TV/TEXT

Example

To operate HITACHI DVD player, press and hold the RECALL button, followed by the (1) button.



NOTE

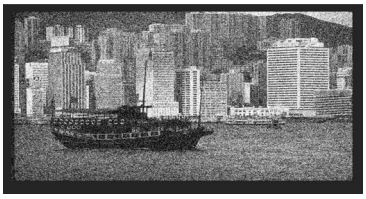
- Not all models of the listed brands can be operated using this remote control.

TROUBLESHOOTING

Symptoms That Seemingly Appear to be Failures

Make the checks suggested below depending on the symptoms observed. If the symptoms remain uncorrected, contact your dealer.

> ⚠ WARNING
> Customer servicing can be hazardous.

Symptom	Possible reason	Remedy
 **snowy picture - poor sound**	(1) Connection of antenna cable to the TV is poor. (2) Corroded or poor antenna connections. (3) Antenna has moved position. (4) Adverse weather conditions. (5) Transmitter problems.	(1) Make new connection and/or change antenna plug. (2) Make new connections or renew cable. (3) Re-align antenna. (4) None. (5) Check with local Operator.
multiple images - sound O.K	(1) Antenna has moved position. (2) TV not tuned correctly. (3) Adverse weather conditions. (4) Transmitter problems. (5) AV Input not set correctly.	(1) Re-align antenna. (2) Re-tune or fine tune TV. (3) None. (4) Check with local Operator. (5) Check the external equipment connected.
intermittent interference	(1) Interference from electrical or mechanical motors, fluorescent lights, portable radios etc.	(1) Check devices for shielding and renew if necessary or move further from TV.
no picture or sound	(1) TV may be in AV mode. (2) Picture/sound setting set to minimum. (3) TV in standby or power save mode.	(1) Press the INPUT SELECT button or ⓪ to ⑨ buttons on your remote control to return to normal TV mode. (2) Check picture / sound controls (go to MAIN MENU). (3) Press POWER ON / OFF button.

PRODUCT SPECIFICATIONS

Panel	**Display dimensions**	Approx. 42 inches (920 (H) x 518 (V) mm, diagonal 1059mm)
	Resolution	852 (H) x 480 (V) pixels
Net dimensions (excluding Speakers/Stand)		1030 (W) x 636 (H) x 91 (D) mm
Net weight (excluding Speakers/Stand)		34.2 kg
Ambient conditions	**Temperature**	Operating : 5˚C to 35˚C, Storage : -15˚C to 60˚C
	Relative humidity	Operating : 20% to 80%, Storage : 20% to 90% (non-condensing)
Power supply		AC100 - 240V, 50/60Hz
Power consumption/at standby		310W / <3W
Audio output		12W + 12W (6Ω)
(RGB input)		
Input signals	**Input terminals**	RGB1 DVI input terminal (DVI-D) RGB1 audio input terminal (3.5mm Stereo Mini Jack) RGB2 analog RGB input terminal (D-sub 15-pin) RGB2 audio input terminal (3.5mm Stereo Mini Jack)
	Video signals	0.7 V/1.0 Vp-p, analog RGB (Recommended Signal) 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60
	Sync signals	H/V separate, TTL level [2KΩ] H/V composite, TTL level [2KΩ] Sync on green, 0.3 Vp-p [75Ω]
Recommended signal		47 modes 58
(Video input)		
Input signals	**Input terminals**	AV1: composite video input terminal (RCA) AV1: Y PB PR video input terminal (RCA) AV1: L/R audio input terminal (RCA) AV2: composite video input terminal (RCA) AV2: Y/G PB/B PR/R video input terminal (RCA) AV2: L/R audio input terminal (RCA) AV3: composite video input terminal (RCA) AV3: S video input terminal (RCA) AV3: L/R audio input terminal (RCA) AV4: composite video / S video / RGB / L/R audio input terminal (Scart)
	Video signals	AV1: NTSC-M, PAL-M, PAL-N AV1: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60 AV2: NTSC-M, PAL-M, PAL-N AV2: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60, RGB AV3: NTSC-M, PAL-M, PAL-N AV4: NTSC-M, PAL-M, PAL-N AV4: RGB
Video output Signal		OUTPUT (MONITOR): composite video monitor-output terminal (RCA) OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA) AV4: composite video / L/R audio output terminal (SCART)
Recommended signal		15 modes 58
(RF input)		
Input signals	**Input terminals**	ANT : 75Ω Unbalanced
	RF Video System	NTSC-M

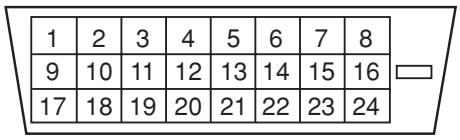
• The monitor takes at least 30 minutes to attain the status of optimal picture quality.

PRODUCT SPECIFICATIONS (continued)

Signal Input

DVI terminal (DVI-D)

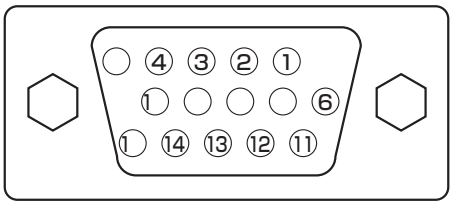
Pin	Input signal	Pin	Input signal
1	T.M.D.S. Data2-	14	+5V Power
2	T.M.D.S. Data2+	15	Ground (for+5V)
3	T.M.D.S. Data2/4 Shield	16	Hot Plug Detect
4	T.M.D.S. Data4-	17	T.M.D.S. Data0-
5	T.M.D.S. Data4+	18	T.M.D.S. Data0+
6	DDC Clock	19	T.M.D.S. Data0/5 Shield
7	DDC Data	20	T.M.D.S. Data5-
8	No Connect	21	T.M.D.S. Data5+
9	T.M.D.S. Data1-	22	T.M.D.S. Clock Shield
10	T.M.D.S. Data1+	23	T.M.D.S. Clock+
11	T.M.D.S. Data1/3 Shield	24	T.M.D.S. Clock-
12	T.M.D.S. Data3-	Frame	GND
13	T.M.D.S. Data3+		



RGB terminal (D-sub 15-pin connector)

Pin	Input signal
1	R (P_R/C_R)
2	G or sync on green (Y)
3	B (P_B/C_B)
4	No connection
5	No connection
6	R.GND (P_R/C_R, GND)
7	G.GND (Y, GND)
8	B.GND (P_B/C_B, GND)
9	No connection
10	GND
11	No connection
12	[SDA]
13	H. sync or H/V composite sync
14	V.sync. [V.CLK]
15	[SCL]

( ) : With component input



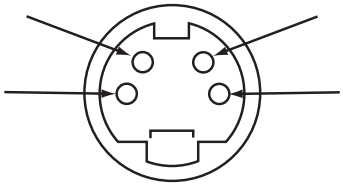
- When different kinds of input signals are simultaneously input to the monitor via a graphics board or the like, the monitor will automatically select the signals in the following priority order:

Sync signal type	Priority
H/V separate sync.	1
H/V composite sync.	2
sync.on Green *	3

*Even in the case of the recommended signals shown on the following page, there may be instances when correct display is not possible. In this case, use H/V separate sync, H/V composite sync.

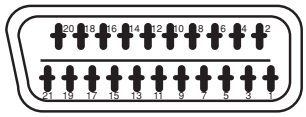
S-input connector pin specifications

Pin	Input signal
1	Y
2	Y-GND
3	C
4	C-GND
Frame	GND



Scart connector pin specifications

Pin	Signal	Pin	Signal
1	AUDIO OUT (RIGHT)	12	Not Used
2	AUDIO IN (RIGHT)	13	RGB-R GND
3	AUDIO OUT (LEFT/MONO)	14	GND
4	AUDIO GND	15	RGB-R / S.VHS CHROMINANCE IN
5	RGB-B GND	16	BLANKING SIGNAL
6	AUDIO IN (LEFT/MONO)	17	COMPOSITE VIDEO GND
7	RGB-B IN	18	BLANKING SIGNAL GND
8	AUDIO/RGB SWITCH / 16:9	19	COMPOSITE VIDEO OUT
9	RGB-G GND	20	COMPOSITE VIDEO / S.VHS LUMINANCE IN
10	Not Used	21	GND / SHIELD (CHASSIS)
11	RGB-G IN		



PRODUCT SPECIFICATIONS (continued)

Recommended Signal List

With Digital RGB signal input (RGB1 input)

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Setup Menu Condition		Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			DVI-PC	DVI-STB	
1	VGA	640 X 400	70.08	31.47	25.18	○		
2		640 X 480	59.94	31.47	25.18	○	○	
3	W-VGA	864 X 480	59.94	31.47	34.24	○		
4	VESA	640 X 480	72.81	37.86	31.50	○		
5		640 X 480	75.00	37.50	31.50	○		
6		640 X 480	85.01	43.27	36.00	○		
7		800 X 600	56.25	35.16	36.00	○		
8		800 X 600	60.32	37.88	40.00	○		
9		800 X 600	72.19	48.08	50.00	○		
10		800 X 600	75.00	46.88	49.50	○		
11		800 X 600	85.06	53.67	56.25	○		
12		1024 X 768	60.00	48.36	65.00	○		
13		1024 X 768	70.07	56.48	75.00	○		
14		1024 X 768	75.03	60.02	78.75	○		
15	480p	720 X 480	59.94	31.47	27.00		○	EIA-861
16	720p/60	1280 X 720	60.00	45.00	74.25		○	EIA-861
17	1080i/60	1920 X 1080	60.00	33.75	74.25		○	EIA-861

• Make sure that the signal of the equipment to be connected is compatible with the pecifications of this list. (○: accep table)

With Analog RGB signal input (RGB2 input)

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	VGA	640 X 400	70.08	31.47	25.18	
2		640 X 480	59.94	31.47	25.18	
3	W-VGA	864 X 480	59.94	31.47	34.24	WVGA type : On
4	VESA	640 X 480	72.81	37.86	31.50	
5		640 X 480	75.00	37.50	31.50	
6		640 X 480	85.01	43.27	36.00	
7		800 X 600	56.25	35.16	36.00	
8		800 X 600	60.32	37.88	40.00	
9		800 X 600	72.19	48.08	50.00	
10		800 X 600	75.00	46.88	49.50	
11		800 X 600	85.06	53.67	56.25	
12		1024 X 768	60.00	48.36	65.00	
13		1024 X 768	70.07	56.48	75.00	
14		1024 X 768	75.03	60.02	78.75	
15		1024 X 768	85.00	68.68	94.50	
16		1152 X 864	75.00	67.50	108.00	
17		1280 X 1024	60.02	63.98	108.00	
18		1280 X 1024	75.03	79.98	135.00	
19		1280 X 1024	85.02	91.15	157.50	
20		1600 X 1200	60.00	75.00	162.00	
21		1600 X 1200	75.00	93.75	202.50	
22		1600 X 1200	85.00	106.25	229.50	
23	Macintosh	640 X 480	66.67	35.00	30.24	
24		832 X 624	74.55	49.72	57.28	
25		1024 X 768	74.93	60.24	80.00	
26		1152 X 870	75.06	68.68	100.00	

27	W-XGA	1280 X 768	59.833	47.986	81.00	
28		1280 X 768	69.997	56.137	94.760	
29		1280 X 768	59.876	47.776	79.50	WXGA Mode:(1280x768)
30		1366 X 768	60.015	47.712	89.50	WXGA Mode:(1366x768)

- The type of video board or connecting cable used may not allow for correct displays adjustment of Horizontal Position, Vertical Position, Horizontal Clock and Clock Phase.
- The monitor may fail to display an animation image correctly when a signal having a vertical frequency of 85Hz or higher is input to it.
- The monitor differentiates the signal modes according to the horizontal and vertical frequencies and the horizontal and vertical sync signal polarities. Note that different signals having all these elements alike may be handled as the same signal.
- Displaying images with more than 480 lines of vertical resolution at Full diplay (compressed display) can result in the interpolation of stripes.

With Composite Input(AV1~AV4 input) and S-video Input (AV3 input).

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	NTSC-M PAL-M	525	59.94	15.73	—	
2	PAL-N	625	50.00	15.63	—	

With R, G, B Video input (AV2 and AV4 input).

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	(NTSC-M,PAL-M) (PAL-N)	525 625	59.94 50.00	15.73 15.63	–	

With component input (AV1, AV2 and RGB2-component input).

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	576i	576	50.00	15.63	–	
2	480i	480	59.94	15.73	–	
3	576p	576	50.00	31.26	–	
4	480p	480	59.94	31.47	–	
5	1080i/50	1080	50.00	28.13	–	
6	1080i/60	1080	60.00	33.75	–	
7	720p/60	720	59.94	44.96	–	

- The monitor differentiates the signal modes according to the horizontal and vertical frequencies and the horizontal and vertical sync signal polarities. Note that different signals having all these elements alike may be handled as the same signal.
- Displaying images with more than 480 lines of vertical resolution at Full diplay (compressed display) can result in the interpolation of stripes.

ENGLISH

HITACHI

Speaker Systems for Hitachi Plasma Display Monitor

Application Model: **42PD5000*,42PMA500*,42HDM70,CMP421***

Model

CMPAS14/CMPAS14S User Manual

Thank you for purchasing a Hitachi plasma display speaker system.
READ THE INSTRUCTIONS ON THIS USER MANUAL CAREFULLY.
KEEP THIS USER MANUAL FOR FUTURE REFERENCES.

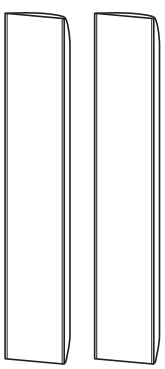
⚠ CAUTION

DO NOT HANDLE MONITOR BY HOLDING THE SPEAKER SYSTEMS.

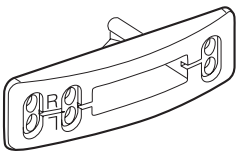
Caution required

Please be careful handling the speaker systems. Since the front side of the speaker systems is fragile, please do NOT press hard or subject impacts.

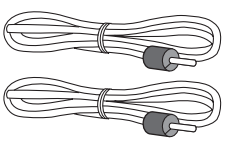
Product Components



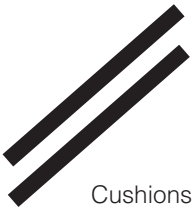
Speakers (x2)



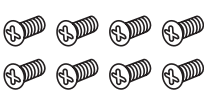
Speaker holder (x4)



Speaker cable with core (x2)



Cushions (2)



Mounting screw (x8)

Specifications

Type	2 way 3 speakers. Bass Reflex
Woofer	80mm cone type x 2 / each
Tweeter	25mm dome type
Impedance	6Ω
Max. input power	50W
RMS input power	20W
External Dimensions	101.5 (W) x 635.5 (H) x 90.5 (D) mm / each
Weight	2.1kg / each

Specifications and design subject to possible modification without notice, due to improvements.

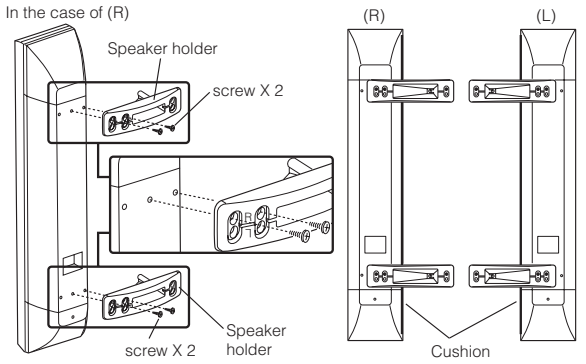
⚠ Caution

Make sure the monitor power is switched off (with the standby/ receive lamp switched off or red) before you connect or disconnect the speaker cables.

Attach the speaker systems to the monitor.

1 Attach the speaker brackets to the speaker systems.

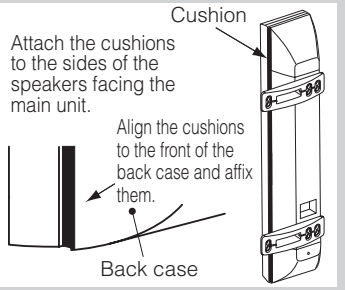
Attach the screws in a position that allows you to read the speaker holder orientation markers (R), (L).



Notice

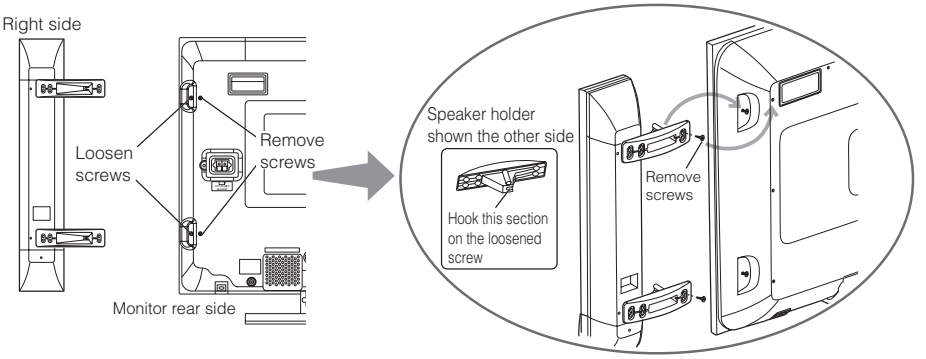
Use of cushions

In some cases, there can be a gap between the main unit and the speaker. You can attach the cushions provided to the side of the speaker system, if desired, to eliminate the gap.

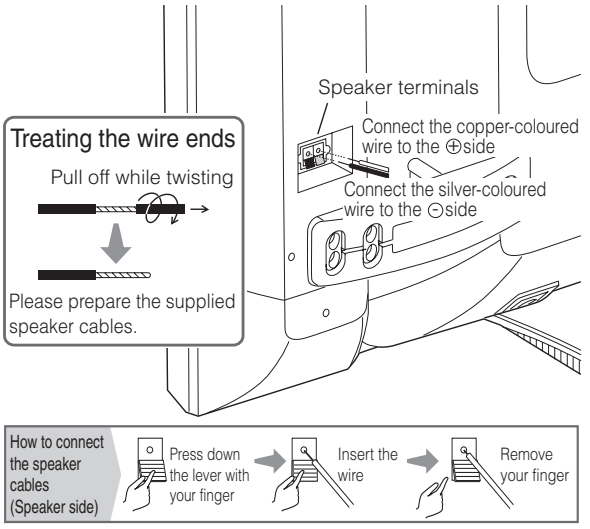

Cushion
Attach the cushions to the sides of the speakers facing the main unit.
Align the cushions to the front of the back case and affix them.
Back case

2 Attach the speaker systems to the monitor.

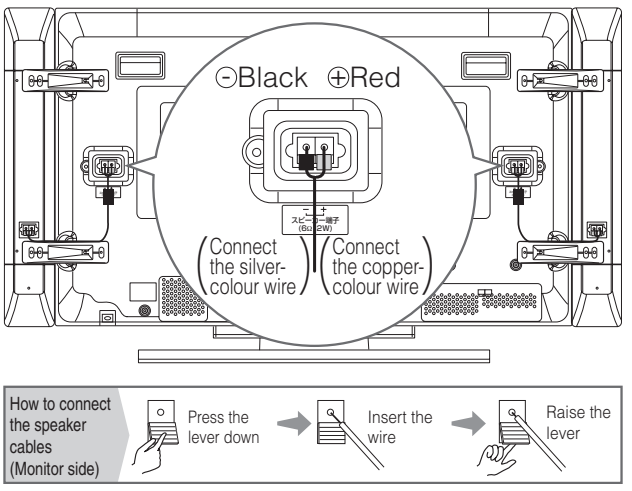
Remove two screws on each side of the monitor as shown and keep them for re-install. Loosen two screws on each side of the monitor as shown so that the speaker holders can be slide on to them. Insert the loosened screws into the engaging holes of the speaker holders that are attached to the speaker system, and slide the screws downwards. Next, use the previously-removed screws to fasten the speaker holders into the mounting holes in the monitor. Tighten the four screws to secure.



3 Attach the connection cables to the speaker system.


Treating the wire ends
Pull off while twisting
Please prepare the supplied speaker cables.
Speaker terminals
Connect the copper-coloured wire to the ⊕side
Connect the silver-coloured wire to the ⊖side
How to connect the speaker cables (Speaker side)
Press down the lever with your finger
Insert the wire
Remove your finger

4 Attach the speaker connection cables to the monitor.


⊖Black ⊕Red
Connect the silver-colour wire
Connect the copper-colour wire
How to connect the speaker cables (Monitor side)
Press the lever down
Insert the wire
Raise the lever

Caution required

Be sure to insert the speaker cables securely.
Lock the connection terminal level securely.

HITACHI

Hitachi Plasma Display Tabletop Stand

Model

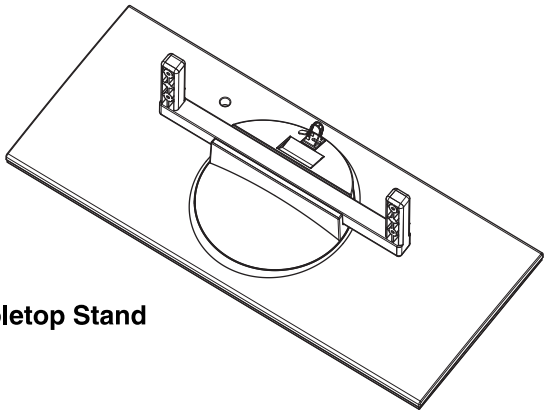
CMPAD15 Installation Instructions

Thank you for purchasing the Hitachi Plasma Display Tabletop Stand.
To ensure correct usage, please read this instruction manual thoroughly. After reading, please store this manual in a safe place for future reference.

This plasma display tabletop stand is for use only with the following models:
CMP4201* CMP4202* CMP4203* 42PMA400*

- Request an installation specialist to install this unit.
- This company assumes absolutely no responsibility for injuries and damages that may occur due to improper installation and handling.

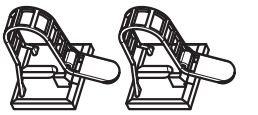
Parts Configuration Chart



Tabletop Stand

Accessory parts in the parts packing bag

M6 x 30 Screw
(4 Pcs.)



Wire Clamp
(2 Pcs.)

Usage cautions to ensure correct usage

Symbols

- The following symbols are used to ensure safe usage of the product, to prevent danger to yourself and other parties and to prevent damage to property.

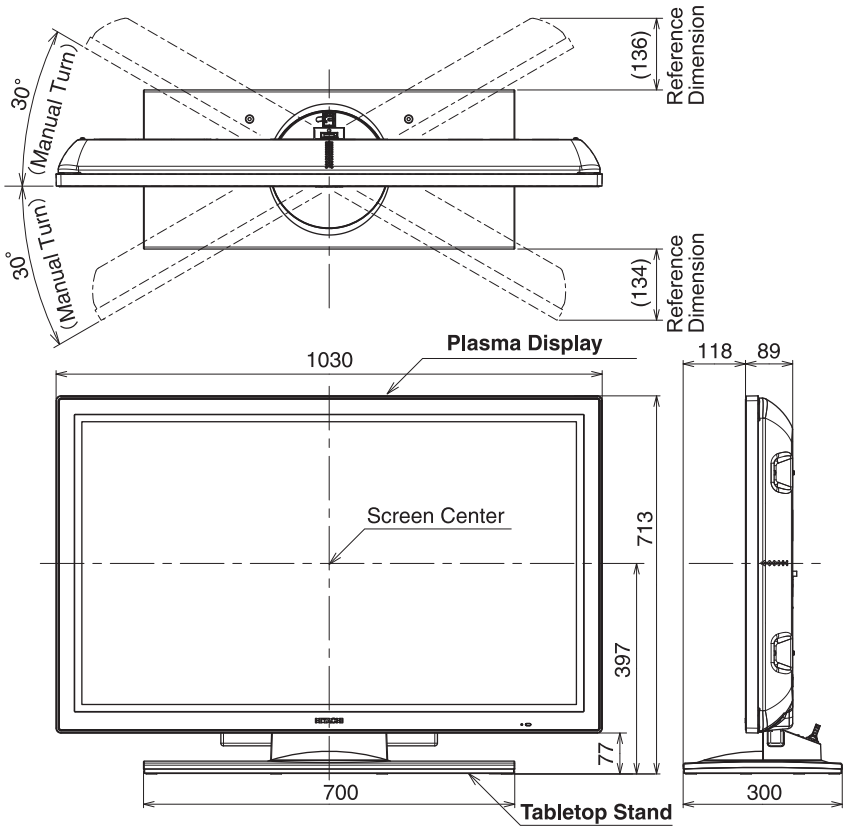
⚠ **WARNING**	■ This symbol indicates that incorrect handling due to ignoring this symbol can result in the possibility of personal injury or even death.
⚠ **CAUTION**	■ This symbol indicates that incorrect handling due to ignoring this symbol can result in the possibility of personal injury and physical damage.

⚠ ■ This symbol indicates additional cautions (including warnings).

⃠ ■ This symbol indicates forbidden actions.

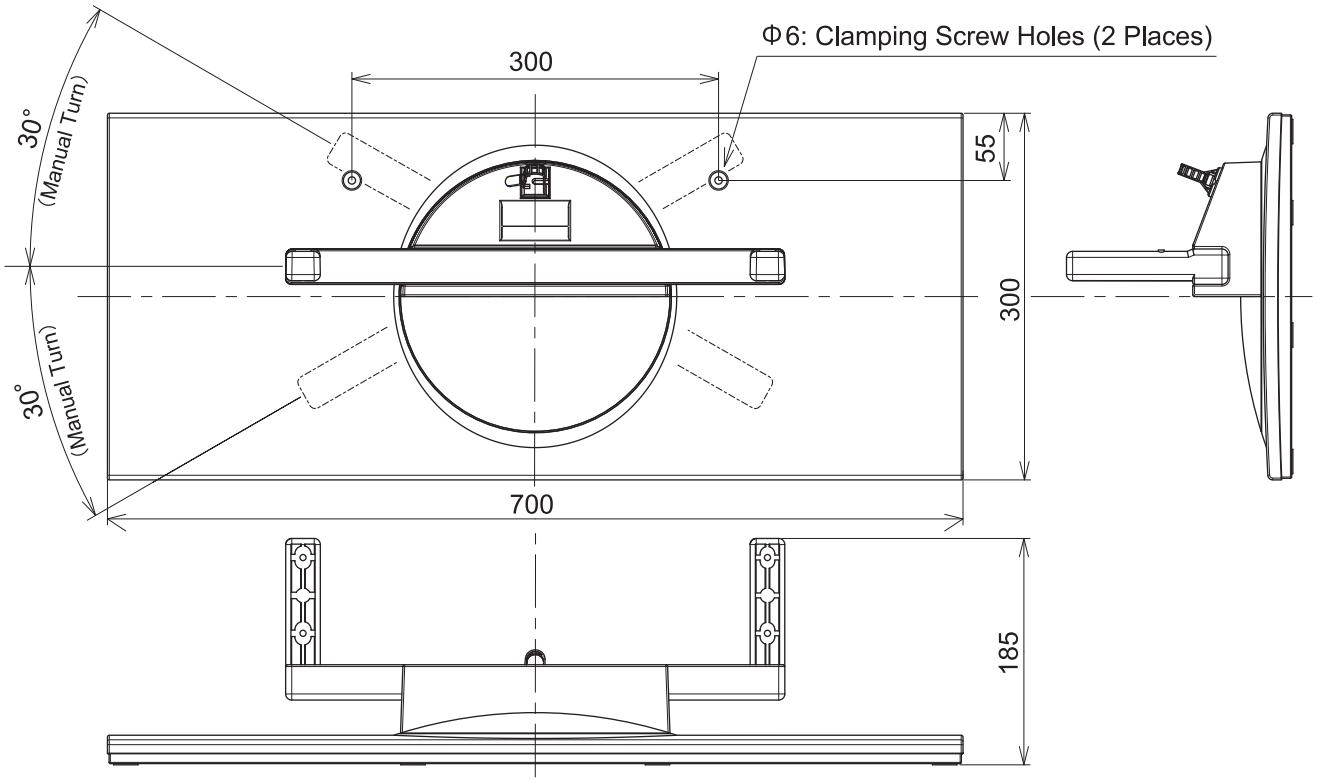
❗ ■ This symbol indicates required actions.

Dimensions of After Assembly



Product Specifications

External Dimensions	700 (W) x 185 (H) x 300 (D) mm
Mass	5.6 kg
Main Material (Surface Treatment)	Base Cover and Turn Cap: ABS (Painting) Support: Aluminum Bottom Cover: Steel (Plating)



Printed in Japan (JE)

NOTE:

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REMARQUE:

Les particularités de l'écran couleur à plasma sont les suivantes.

Les informations contenues dans ce manuel peuvent être modifiées sans préavis. Le constructeur n'accepte aucune responsabilité pour les erreurs qui peuvent éventuellement apparaître dans ce manuel.

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